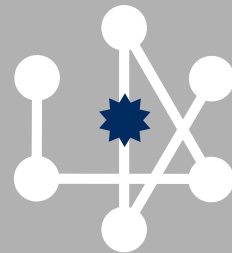
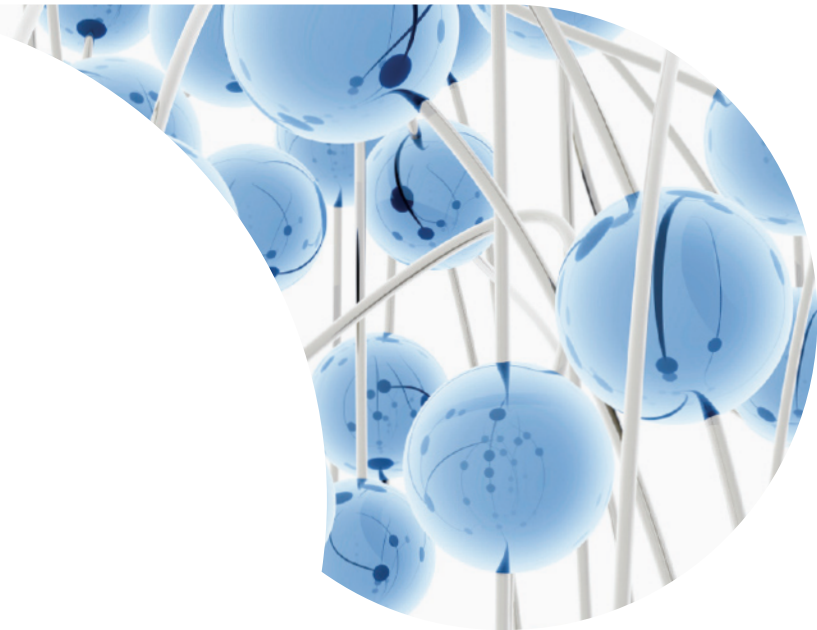




# antibodies for neuroscience



Making  
better  
antibodies  
with  
whole  
proteins  
as  
nature intended.

# Welcome...

## Foreword

Neuroscience is advanced by the research efforts of scientists worldwide, spanning multiple research backgrounds and disciplines. Each neuroscientist has the same ultimate goal: to forward our understanding of the brain and its functions in both health and disease. Collectively, the field has achieved an enormous amount over the past decade: work done within it has discovered more than that of the preceding three decades put together. Our understanding of the brain and neural systems is advancing in leaps and bounds as knowledge accumulates and technology advances.

Yet many questions remain to be answered, if not asked, in the field of neuroscience; many secrets of the brain still wait to be uncovered. At Proteintech Group, we predict great things to come over the next decade in this field and hope that in some way we can contribute to it by providing those who need them with great antibodies. Over the next few pages you can browse a selection of our neuroscience related antibodies and read up on the contributions some of them have already made in the field.

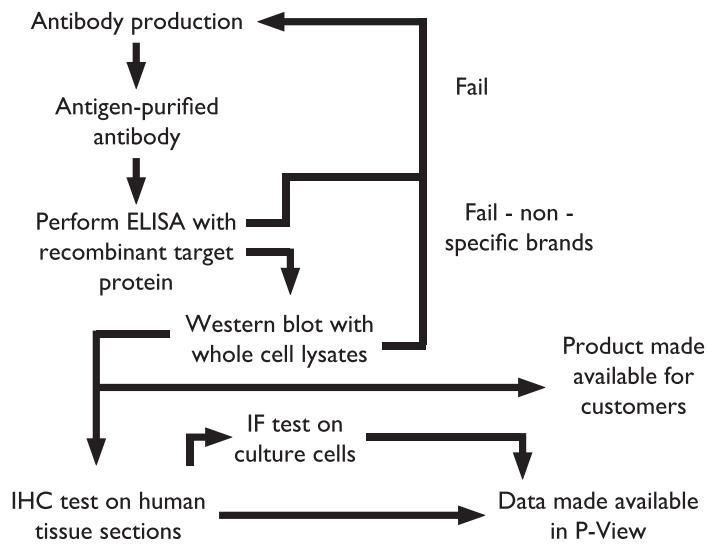
## About Us

Since our establishment in 2002 by research scientists, the team at Proteintech Group have set out to provide the research community with quality antibodies and unbeatable customer service; essentially, we strive towards a better antibody company every day. To help us achieve our goal we employ the following approaches: we make every single antibody that we sell, giving us complete control over production, quality, validation and distribution; our standard policy is to get your antibody to you the very next working day, so you can get important experiments done sooner; To top it all, we promise a guaranteed refund if you are dissatisfied with our antibodies in anyway – antibodies haven't worked in your species or application of choice? No problem, we'll refund the cost.

If you're wondering how we can offer you such great terms, it's simple; the answer lies in the science behind our antibodies. We make the majority of our antibodies using the whole protein as the antigen and purify them using antigen affinity purification; this process results in antibodies that recognize epitopes in a variety of conditions and can be used for a variety of species. As such, we are confident that you will find an antibody in our extensive catalog (catering for over 11,000 proteins!) to suit your needs – guaranteed. After all we are not satisfied unless you are; our success lies in your own.

**Proteintech Group:** making better antibodies with whole proteins as nature intended.

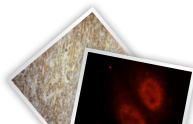
## Validation



## what's inside ?

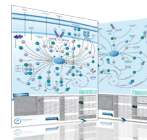
### 4-5 Focus Antibodies

We take a look at recent IDH1 Antibody successes, our Optineurin Antibody the recent ALS/FTLD breakthrough and our SMN antibody.



### 10-11 Signal Pathways

Alzheimer's Disease and Neurotrophin Signal pathways



### 6-9 AAS-GNAS

The first section of our neuroscience related antibodies showcasing Star Antibodies and recent publications



### 12-18 GNATI-TNFSF10

The second section of our neuroscience related antibodies showcasing Star Antibodies and recent publications



## Key

Here at Proteintech we like to give you as much information as we can. This key will help you find the antibodies key to your research area:

### Neuropathology related categories

- AD Alzheimer's Disease
- ALS Amyotrophic lateral sclerosis
- AD/HD Attention deficit hyperactivity disorder
- AU Autism
- Dep Depression
- DLB Dementia with Lewy Bodies
- Ep Epilepsy
- FTD Frontotemporal dementias
- HD Huntington's disease
- ID Intellectual difficulties
- MD Muscular dystrophies
- MG Myasthenia Gravis
- MS Multiple Sclerosis
- MRX x-linked mental retardation
- OCD Obsessive Compulsive
- Onc Neuro-Oncology
- PD Parkinson's disease
- SMA Spinal Muscular Atrophy
- SZP Schizophrenia
- TS Tourette's Syndrome

### Protein fusion related categories

- APP Action potential propagation
- GCD Growth cone development and function
- H Hearing
- MusC Muscle contraction
- Neu Neuronal activity
- NDR Neurodevelopment and regeneration
- NST Neural signal transduction
- Ntrop Neurotrophin pathway
- Sys Synapse Signaling
- Vis Vision

### Maker related categories

- AX Axon
- De Dendrite
- NSC Neural stem cell marker
- So Somatic markers

**Remember:** cite a Proteintech antibody in your publication and receive a free antibody of your choice!



# Focus Antibodies



## Recent IDHI Antibody Successes

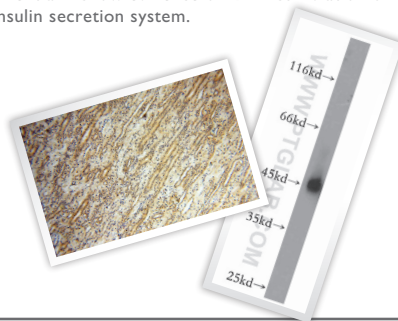
**IDHI is a dimeric cytosolic NADP-dependent isocitrate dehydrogenase that catalyzes decarboxylation of isocitrate into  $\alpha$ -ketoglutarate in the process of pyruvate cycling. Proteintech have created a rabbit polyclonal antibody raised against the 296 residues of the IDHI protein C-terminal (cat. no. I2332-1-AP). Two past publications in particular have used our IDHI antibody to great success:**

**Cancer-associated IDHI mutations produce 2HG**  
Lenny Dang and colleagues, of Agios Pharmaceuticals, Cambridge MA, published their finding that IDHI mutations in cancer increase the production of the onco-metabolite 2-hydroxyglutarate (2HG) in Nature in December 2009. The authors used our IDHI antibody to confirm the expression of both wild-type and mutated IDHI (R132H) in stably transfected U87MG human glioblastoma cells. Mutations in IDHI are a common feature of a major subset of primary human brain cancers and are found in 80% of secondary glioblastomas. These mutations occur at a single amino acid residue of the IDHI active site (R132H), resulting in loss of the enzyme's ability to catalyze conversion of isocitrate to  $\alpha$ -ketoglutarate. It had been believed that this loss of activity was promoted cancer growth but Dang and colleagues show this is not the case. What Dang et al. report is that cancer-associated IDHI mutations result in a new ability of the IDHI enzyme to catalyze the NADPH-dependent reduction of  $\alpha$ -ketoglutarate to 2HG. Excess accumulation of 2HG has been shown to lead to an elevated risk of malignant brain tumors in patients with inborn errors

of 2HG metabolism. Similarly, in human malignant gliomas harboring IDHI mutations, they find markedly elevated levels of 2HG. This finding opened interesting new research avenues for glioblastoma research and its featuring paper went on to be one of the most cited in Neuroscience in 2010 (ref. Nature Medicine, March 2011, vol. 17:3 p.278).

### Liver X receptor agonists activate the pyruvate cycling pathway

Studies in rodent models have suggested an important role for liver X receptors (LXRs) in the maintenance of glucose homeostasis and islet function. A team led by Carmella Evans-Molina at the Indiana University School of Medicine set out to investigate the role of LXRs in human islet biology and reported their findings in a Journal of Biological Chemistry paper in 2011. First author Takeshi Ogihara and colleagues found that LXR agonist treatment on human islets enhanced both basal and stimulated insulin secretion. Pyruvate cycling has recently been implicated as an important process for the sustained release of insulin in response to elevated glucose; IDHI is an important enzyme in this process and so Ogihara et al. examined IDHI expression levels in islets, with or without agonist treatment. They report an increase in IDHI expression upon agonist treatment and show evidence of IDHI stimulation of the insulin secretion system.



**Keywords:** 2HG, brain cancer, IDHI, insulin, isocitrate dehydrogenase, liver X receptors, Nature.

#### Related Antibodies:

1. IDHI, I2332-1-AP (Rabbit polyclonal)
2. (LXR $\alpha$ ), 60134-1-AP (Mouse monoclonal)
3. NR1H2 (LXR $\alpha$ ), I4278-1-AP (Rabbit polyclonal)

#### Related Publications:

1. L. Dang et al., Nature, 462, 7274 (2009)
2. T. Ogihara et al., J. Biol. Chem., 285, 8 (2010)

## Optineurin and Neurodegenerative Disease

Optineurin is a cytoplasmic protein expressed in retina, brain, heart, skeletal muscle, placenta and kidney. It has several protein interacting partners such as GTPase Rab8, metabotropic glutamate receptor 1a, Huntingtin, Myosin VI, ring finger protein 11, and serine/threonine kinase receptor-interacting protein 1 (RIP1). This array of interaction partners point to several cellular roles for optineurin; indeed, it translocates to the nucleus during the transmission of apoptotic signals, its interaction with myosin VI would suggest a role in vesicular trafficking and it was recently shown to negatively regulate tumor necrosis factor  $\alpha$  (TNF $\alpha$ ).

Pathologically, the optineurin gene has long been associated with both normal tension glaucoma (NTG) and primary open-angle glaucoma (POAG), both of which are causes of progressive and irreversible vision loss. Recently, however, mutations in the optineurin gene have been identified in patients with amyotrophic lateral sclerosis (ALS) – a progressive and eventually fatal neurodegenerative disease. Immunohistochemical analysis shows aggregation of optineurin in skein-like inclusions (intracytoplasmic filamentous structures) and round hyaline inclusions in the spinal cord of ALS patients.

Our optineurin antibody – OPTN – (I0837-1-AP) recently featured in a paper building on the previous data linking optineurin with neurodegenerative disease; it was published in Neuropathology in early 2011. The authors tested a wide range of tissue samples from different neurodegenerative diseases, including ALS, and reported finding examples of optineurin-positive inclusions in each case. As well as further identification of optineurin in ALS-associated pathological structures, the authors found this protein to be aggregated in several other types of inclusions from various diseases including: ubiquitin-positive intraneuronal inclusions in ALS with dementia, basophilic inclusions in the basophilic type of ALS, neurofibrillary tangles and dystrophic neurites in Alzheimer's disease, lewy bodies and Lewy neurites in Parkinson's disease, ballooned neurons in Creutzfeldt-Jakob disease, glial cytoplasmic inclusions in multiple system atrophy and Pick bodies in Pick disease. The study concluded its data indicates that, "optineurin is widely distributed in neurodegenerative conditions; however, its significance remains obscure". We hope scientists investigating optineurin in any area of research chose our OPTN antibody.

**Keywords:** Amyotrophic lateral sclerosis (ALS), Alzheimer's disease, Creutzfeldt-Jakob disease (CJD), neurodegenerative disease, Normal tension glaucoma (NTG), optineurin, Parkinson's disease, Pick disease, primary open-angle glaucoma (POAG).

#### Related Antibodies:

1. OPTN, I0837-1-AP (Rabbit polyclonal)
2. MYO7B, I4467-1-AP (Rabbit polyclonal)
3. MYO7A, 20720-1-AP (Rabbit polyclonal)
4. RAB8A, I0437-1-AP (Rabbit polyclonal)

#### Related publications:

1. Osawa T et al., Neuropathology. 2011 Feb 1 (ahead of print, PMID: 21284751).
2. Meng Q et al., Mol Biol Rep. 2011 Jun 17 (ahead of print, PMID: 21681420).

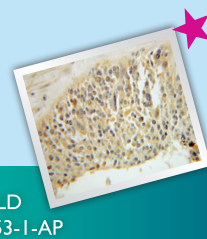
## 3 of the best neuroscience antibodies!



TDP-43  
I0782-2-AP



SESN2  
I0795-1-AP



PALLD  
I0853-1-AP

You can find all our published neuroscience antibodies by simply looking out for the star symbol!

# Our published antibodies by numbers!

we look at how many publications REDD1, PAX8, ACTB AND TARDBP have been published in!



## FUS antibody in recent ALS/FTLD breakthrough

**Monoclonal FUS antibody 60160-I-Ig appears in recent Brain paper describing markers that distinguish FTLD with FUS pathology (FTLD-FUS) from ALS with FUS mutations (ALS-FUS).**

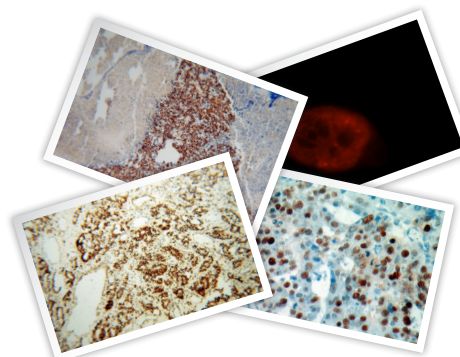
Amyotrophic lateral sclerosis (ALS) – also known as Lou Gehrig’s disease (US) or motor neurone disease (UK) – and frontotemporal lobar degeneration (FTLD) are degenerative neurological diseases that have very similar pathologies. Manuela Neumann of the institute of Neuropathology at the University Hospital Zurich, Switzerland, is an ALS and FTLD expert looking for answers to the many questions surrounding these degenerative diseases. Previously, she has had a key role in identifying and characterizing TDP-43 as a pathological contributor to some forms of ALS and FTLD and has since helped link fused in sarcoma (FUS) protein to both diseases. TDP-43 and FUS are

both RNA binding proteins and this has led experts, including Neumann, to consider the diseases as RNAopathies: where RNA metabolism is altered in such a way as to cause protein aggregation and inclusion formation.

Now Neumann and colleagues are looking for other proteins that may play a role in the pathologies of ALS and FTLD after having the idea that FUS-related proteins may also end up in the tangle of FUS inclusions in affected neuronal and glial cells. Following this hunch, they found something rather interesting indeed...

FUS is a member the FET family of proteins known to interact with one another and thought to form protein complexes to go about their daily business. The other FET family proteins are Ewing’s sarcoma (EWS) and TATA-binding protein associated factor 15 (TAF15). Neumann et al’s latest paper – which uses our mouse monoclonal FUS antibody (60160-I-Ig) – has found that the presence or absence of EWS or TAF15 in pathological inclusions can be used to distinguish one disease from the other. After performing detailed immunohistochemical (IHC), biochemical and genetic analyses of both TAF15 and EWS proteins from samples covering the full spectrum of FTLD and ALS FUS-opathies, the group had some striking data in their hands. ALS-FUS IHC revealed that this pathology stained exclusively for FUS, whereas FTLD-FUS consistently stained for TAF15 and variably for EWS. Western blot of FTLD-FUS post-mortem tissue lysate revealed a shift of all FET proteins towards insoluble protein fractions. This confirms that protein inclusions in the two FUS-opathies, ALS-FUS and FTLD-FUS, arise via very different pathological mechanisms: ALS-FUS seems to be restricted to dysfunction of FUS whereas a universal and complex dysregulation of all FET proteins contributes to the subtypes of FTLD-FUS. Interestingly,

genetic evaluation of both EWS and TAF15 did not identify any pathogenic variants in these genes; which leaves the question of the genetic mechanism behind the dysregulation of FET proteins leading to FTLD-FUS wide open.



**Keywords:** amyotrophic lateral sclerosis (ALS), ewing’s sarcoma (EWS), FET proteins, frontotemporal lobar degeneration, FTLD, fused in sarcoma (FUS), Manuela Neumann, neuroscience, TAF15.

### Related Antibodies:

1. FUS, 60160-I-Ig (Mouse monoclonal)
2. EWS, 55191-I-AP (Mouse monoclonal)
3. TDP-43 (N-term-260aa), 10782-2-AP (Rabbit polyclonal)
4. TDP-43 (C-term-154aa), 12892-I-AP (Rabbit polyclonal)
5. TDP-43, 60019-I-Ig (Mouse monoclonal)

### Related Publications:

1. Neumann et al., Brain (2011) 134 (9): 2595-2609

## Our SMN Antibody in Spinal Muscular Atrophy Breakthrough

Scientists at the Spinal Muscular Atrophy (SMA) Foundation, New York, and several US-based pharmaceutical companies have developed a sandwich enzyme-linked immunosorbent assay (ELISA) that measures the level of survival motor neuron (SMN) protein in the blood. In the developmental process the researchers tested a selection of antibodies from several companies including Proteintech, but found our SMN antibody 11708-I-AP, “had [a] 4-fold greater reactivity to the protein standard” than the others tested.

A deletion or mutational inactivation of the SMN1 gene causes the SMA disease, a progressive neuromuscular condition. The disease leads to the

degeneration of alpha motor neurons in the anterior horn of the spinal cord and atrophy of the musculature due to denervation.

As well as SMN1, humans also have a “back-up” copy of the gene: the highly similar SMN2, though the amount of functional protein produced by SMN2 is approximately 70 to 90% less than SMN1. The difference between the two SMN genes is one base: a C to T replacement in exon 7 of SMN2. This small alteration promotes an alternative splicing pattern that excludes exon 7 from the resulting protein, an unstable, but partially functional truncated SMNΔ7. There are several forms of SMA which vary in severity. Patients with the milder forms of SMA tend to have higher copies of the SMN2 gene, though SMN2 can never compensate for SMN1 fully – yet there is hope; there are a number of potential therapies under evaluation as potential treatments for SMA. Despite this fact however, there has been a critical lack in the development of methods to evaluate SMN-targeting therapies, particularly those therapies that upregulate SMN protein. To this end, the SMA foundation

researchers set out to rectify this, and with the help of our SMN antibody 11708-I-AP, they have succeeded in developing a rapid assay that reliably and quantitatively detects SMN in both healthy and SMA subjects blood samples. The results were able to show a 90% reduction in SMN protein compared to normal test subjects. Encouragingly, the researchers conclude that their newly developed SMN ELISA, “has general translational applicability to both preclinical and clinical research efforts.” Heartening news indeed!

**Keywords:** Spinal muscular atrophy (SMA), survival motor neuron protein (SMN), SMN1, SMN2, SMNΔ7, Sandwich ELISA, SMN ELISA, SMA biomarker.

### Related Antibodies:

1. SMN, 11708-I-AP (Rabbit polyclonal)
2. SMN, 60154-I-Ig (Mouse monoclonal)

### Related publications:

1. Kobayashi DT et al., PLoS ONE (2011), 6(8):e24269.

“The UHMKI antibody worked very well, unlike a lot of commercially available antibodies. We would certainly use it again.”

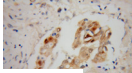
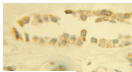
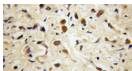
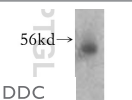
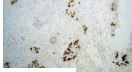
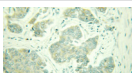
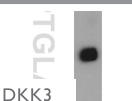
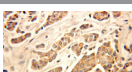
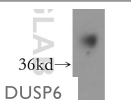
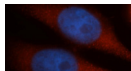
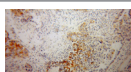
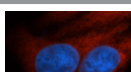
Prof Keith Pennypacker, University of South Florida



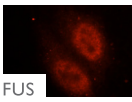
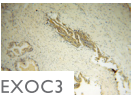
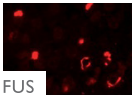
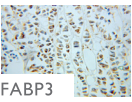
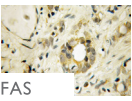
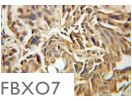

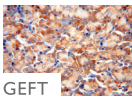
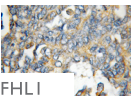
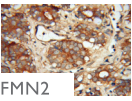
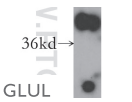
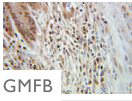
Turn the page to browse a selection of neuroscience related antibodies.

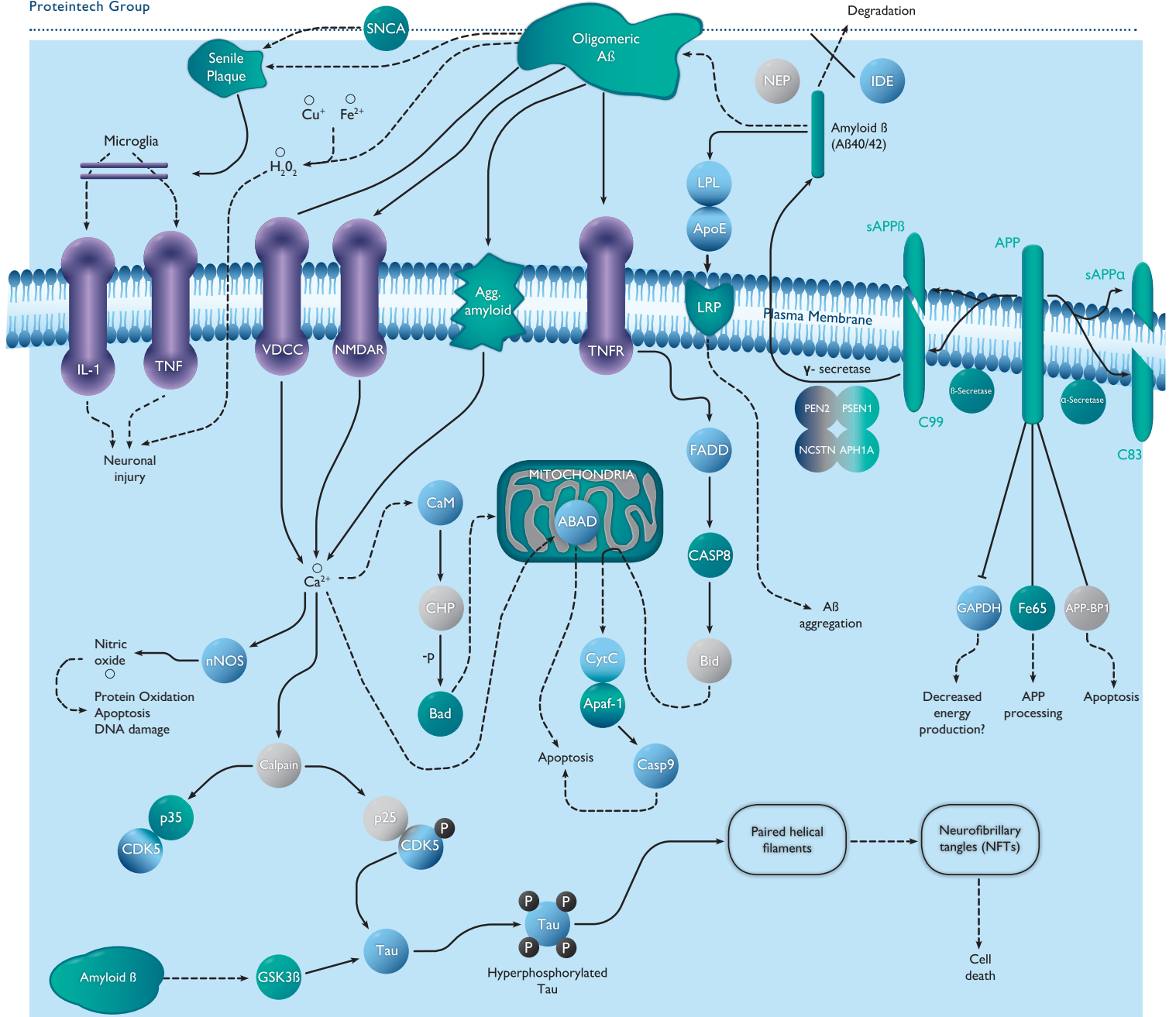
Antibody	Cat. No	Type	Application	Antibody	Cat. No	Type	Application
 <b>Recent Publications</b> ND Amin et al., <i>J Neurosci.</i> 2008 Apr 2;28(14)				ARPP-19	I1678-1-AP	Rabbit Poly	ELISA,WB,IHC
SEPT5	I1631-1-AP	Rabbit Poly	ELISA,WB,IHC	ARRB2	I0171-1-AP	Rabbit Poly	ELISA,WB,IHC
SEPT11	I4672-1-AP	Rabbit Poly	ELISA,WB,IF	ATL (SP3GA)	I2149-1-AP	Rabbit Poly	ELISA,WB
AAAS	I5127-1-AP	Rabbit Poly	ELISA,WB,IHC	ATOH1	21215-1-AP	Rabbit Poly	ELISA,WB
AATF	I0282-1-AP	Rabbit Poly	ELISA,WB	ATPIA1	I4418-1-AP	Rabbit Poly	ELISA,WB
ABCA2	20681-1-AP	Rabbit Poly	ELISA,WB	ATPIA1	55187-1-AP	Rabbit Poly	ELISA,WB
ABCG4	I4269-1-AP	Rabbit Poly	ELISA,WB,IHC	ATPIA2	I6836-1-AP	Rabbit Poly	ELISA,WB,IHC
ACOT2	I5633-1-AP	Rabbit Poly	ELISA,WB,IHC, IF	ATP5A1	I4676-1-AP	Rabbit Poly	ELISA,WB,IHC,IF
ADAP1	I3911-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	 <b>Recent Publications</b> Sang L et al., <i>Cell.</i> 2011 May 13;145(4)			
ADCY3	I9492-1-AP	Rabbit Poly	ELISA,WB,IHC	ATXN10	I5693-1-AP	Rabbit Poly	ELISA,WB,IHC
ADD1	I0791-1-AP	Rabbit Poly	ELISA,WB	ATXN2	21776-1-AP	Rabbit Poly	ELISA,WB
ADD3	I7585-1-AP	Rabbit Poly	ELISA,WB	AXIN1	I6541-1-AP	Rabbit Poly	ELISA,WB
ADM	I0778-1-AP	Rabbit Poly	ELISA,WB,	AXIN2	20540-1-AP	Rabbit Poly	ELISA,WB
ADNP	I7987-1-AP	Rabbit Poly	ELISA,WB,	 <b>Recent Publications</b> Lu CM et al., <i>Proteome Sci.</i> 2011 Apr 8;9(1)			
ADORA1	55026-1-AP	Rabbit Poly	ELISA,WB,IHC	AZGP1	I3399-1-AP	Rabbit Poly	ELISA,WB,IHC
AHSG	I6571-1-AP	Rabbit Poly	ELISA,WB,IHC	BACE2	I6321-1-AP	Rabbit Poly	ELISA,WB
AKT1	I0176-2-AP	Rabbit Poly	ELISA,WB,	BACH1	I4018-1-AP	Rabbit Poly	ELISA,WB,IHC
AKT1	60072-1-Ig	Mouse Mono	ELISA,WB,IHC	 <b>Recent Publications</b> A Gentilella et al., <i>J Biol Chem.</i> 2011 et al., 286(11):9205-15 Ketteren N. et al., <i>PLoS One.</i> 2011;6(1):e16398			
ALDH1A1	I5910-1-AP	Rabbit Poly	ELISA,WB,IHC	BAG3	I0599-1-AP	Rabbit Poly	ELISA,WB
ALDH1A1	65004-1-Ig	Mouse Mono	ELISA,WB	BAIAP2	I1087-2-AP	Rabbit Poly	ELISA,WB,IHC
ALDH1A1	60171-1-Ig	Mouse Mono	ELISA,WB	BAK1	I4673-1-AP	Rabbit Poly	ELISA,WB,IHC
 <b>Recent Publications</b> Karner CM et al., <i>Development.</i> 2011 Apr;138(7)				BCL11A	I1613-1-AP	Rabbit Poly	ELISA,WB,IHC
AMPH	I3379-1-AP	Rabbit Poly	ELISA,WB,IHC	BDNF	I7465-1-AP	Rabbit Poly	ELISA,WB
 <b>Recent Publications</b> Eisenhofer G et al., <i>Am J Physiol Endocrinol Metab.</i> 2008 Nov;295(5)				 <b>Recent Publications</b> Q Zi et al., <i>Neurochem Int</i> et al., 2011 Jun 11 Cui T et al., <i>Brain Res et al.</i> , 2011 et al., 1394:1-13			
ANXA7	I0154-2-AP	Rabbit Poly	ELISA,WB,IHC	BECN1	I1306-1-AP	Rabbit Poly	ELISA,WB,IHC
APBB1	I2526-1-AP	Rabbit Poly	ELISA,WB	BHLHE41	I2688-1-AP	Rabbit Poly	ELISA,WB
APBB2	I3177-1-AP	Rabbit Poly	ELISA,WB	BIN3	20186-1-AP	Rabbit Poly	ELISA,WB
APC	I9782-1-AP	Rabbit Poly	ELISA,WB	BIRC5	I0508-1-AP	Rabbit Poly	ELISA,WB
APH1A	I1643-1-AP	Rabbit Poly	ELISA,WB	BIRC5	I9119-1-AP	Rabbit Poly	ELISA,WB
APLP1	I2305-2-AP	Rabbit Poly	ELISA,WB	BLMH	I4941-1-AP	Rabbit Poly	ELISA,WB,IHC,IF
APLP2	I5041-1-AP	Rabbit Poly	ELISA,WB,IHC	BPNT1	I6461-1-AP	Rabbit Poly	ELISA,WB
 <b>Recent Publications</b> Wei YJ et al., <i>Biomarkers.</i> 2008 Aug;13(5)				 <b>Recent Publications</b> Morita T et al., <i>J Biol Chem.</i> 2009 Oct 2;284(40)			
APOD	I0520-1-AP	Rabbit Poly	ELISA,WB,IHC	BRSK2	I1589-1-AP	Rabbit Poly	ELISA,WB,IHC
APOF	I6608-1-AP	Rabbit Poly	ELISA,WB,IHC	BSG	I1989-1-AP	Rabbit Poly	ELISA,WB,IHC
APP (Aβ42)	I0524-1-AP	Rabbit Poly	ELISA,WB	BTD	I6330-1-AP	Rabbit Poly	ELISA,WB,IHC
APPL1	I2639-1-AP	Rabbit Poly	ELISA,WB,IHC	CIQA	I1602-1-AP	Rabbit Poly	ELISA,WB
 <b>Recent Publications</b> Yao J et al., <i>PLoS One.</i> 2011;6(7)				CADM1	I4335-1-AP	Rabbit Poly	ELISA,WB
ARC	I6290-1-AP	Rabbit Poly	ELISA,WB,IHC	CADM3	I5660-1-AP	Rabbit Poly	ELISA,WB
ARHGAP26	I7747-1-AP	Rabbit Poly	ELISA,WB	CALB1	I4479-1-AP	Rabbit Poly	ELISA,WB
ARHGEF4	55213-1-AP	Rabbit Poly	ELISA,WB	CALD1	20887-1-AP	Rabbit Poly	ELISA,WB
ARHGEF7 (PAK7)	I4092-1-AP	Rabbit Poly	ELISA,WB	CAMK2A	I3730-1-AP	Rabbit Poly	ELISA,WB
ARHGEF9	20042-1-AP	Rabbit Poly	ELISA,WB	CAMK2B	I1533-1-AP	Rabbit Poly	ELISA,WB,IHC

Antibody	Cat. No	Type	Application		Antibody	Cat. No	Type	Application	
CAMK2D	20667-1-AP	Rabbit Poly	ELISA,WB		CHRNA6 (AChRa6)	I1388-1-AP	Rabbit Poly	ELISA,WB	
CAMK2G	55140-1-AP	Rabbit Poly	ELISA,WB		<b>Recent Publications</b> Qian J et al., <i>Genes Immun</i> .2011 Apr;12(3)	★			
CAPS	I6926-1-AP	Rabbit Poly	ELISA,WB		CHRNBI (AChRB)	I1553-1-AP	Rabbit Poly	ELISA,WB,IHC	
CAPS2	I1924-1-AP	Rabbit Poly	ELISA,WB,IHC		CHURCI	I2247-1-AP	Rabbit Poly	ELISA,WB	
CARTPT	I3212-1-AP	Rabbit Poly	ELISA,WB		CIB1	I1823-1-AP	Rabbit Poly	ELISA,WB,IHC	
CASP3	I9677-1-AP	Rabbit Poly	ELISA,WB		CKB	I5137-1-AP	Rabbit Poly	ELISA,WB,IHC	
CASP4	I1856-1-AP	Rabbit Poly	ELISA,WB,IHC		CKB	I8713-1-AP	Rabbit Poly	ELISA,WB	
CASP6	I0198-1-AP	Rabbit Poly	ELISA,WB,IHC		CKM	60177-1-Ig	Mouse Mono	ELISA,WB	
<b>Recent Publications</b> Liu H et al., <i>Eur J Pharmacol</i> .2011 Mar 11;654(3) Zheng S et al., <i>PLoS One</i> .2011;6(6)	★				CLN3	20386-1-AP	Rabbit Poly	ELISA,WB,IHC	
CASP8	I3423-1-AP	Rabbit Poly	ELISA,WB,IHC		<b>Recent Publications</b> V Muresan et al., <i>J Neurosci</i> . 2009 Mar 18;29(11)	★			
CAST	I2250-1-AP	Rabbit Poly	ELISA,WB,IHC		CLSTNI	I2788-1-AP	Rabbit Poly	ELISA,WB	
CBLN2	20558-1-AP	Rabbit Poly	ELISA,WB		CNGA3	21657-1-AP	Rabbit Poly	ELISA,WB	
<b>Recent Publications</b> Stipanuk MH et al., <i>J Inherit Metab Dis</i> .2011 Feb;34(1)	★				CNN2	21073-1-AP	Rabbit Poly	ELISA,WB	
CBS	I4787-1-AP	Rabbit Poly	ELISA,WB,IHC,IF		CNTFR	I0796-1-AP	Rabbit Poly	ELISA,WB	
CCDC115	20636-1-AP	Rabbit Poly	ELISA,WB		CNTN4	I2777-1-AP	Rabbit Poly	ELISA,WB	
CCDC158	20396-1-AP	Rabbit Poly	ELISA,WB,IHC		COIL	I0967-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	
CCDC42	20833-1-AP	Rabbit Poly	ELISA,WB		COL18A1	I8301-1-AP	Rabbit Poly	ELISA,WB	
CD34	60180-1-Ig	Mouse Mono	ELISA,WB		COL25A1	I2738-1-AP	Rabbit Poly	ELISA,WB	
<b>Recent Publications</b> Li YW et al., <i>J Hepatol</i> .2011 Mar;54(3)	★				COMT	I4754-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	
CD34	I4486-1-AP	Rabbit Poly	ELISA,WB,IHC		<b>Recent Publications</b> L Broadwater et al., <i>Biochim Biophys Acta</i> . 2011 May;1812(5):630-41	★			
CD3D	I6669-1-AP	Rabbit Poly	ELISA,WB,IF		COX5B	I1418-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	
CD3E	I7617-1-AP	Rabbit Poly	ELISA,WB,IHC		CPEB1	I3274-1-AP	Rabbit Poly	ELISA,WB	
CD3E	60181-1-Ig	Rabbit Poly	ELISA,WB		<b>Recent Publications</b> Webster MJ et al., <i>Int J Dev Neurosci</i> . 2010 Oct 1	★			
CD3G	21120-1-AP	Rabbit Poly	ELISA,WB		CPLX1	I0246-2-AP	Rabbit Poly	ELISA,WB	
CD3ζ (ZETA)	I2837-2-AP	Rabbit Poly	ELISA,WB,IHC		CPLX4	21222-1-AP	Rabbit Poly	ELISA,WB	
CD40	I2971-1-AP	Rabbit Poly	ELISA,WB		CREB1 (CBP)	I2208-1-AP	Rabbit Poly	ELISA,WB	
CD40LG	I6668-1-AP	Rabbit Poly	ELISA,WB,IHC		CRH	60168-1-Ig	Mouse Mono	ELISA,WB	
CD82	I0248-1-AP	Rabbit Poly	ELISA,WB		CRIP1	I1211-1-AP	Rabbit Poly	ELISA,WB	
CDC2	I0762-1-AP	Rabbit Poly	ELISA,WB		CRMP1	I0317-1-AP	Rabbit Poly	ELISA,WB	
CDH23	I3496-1-AP	Rabbit Poly	ELISA,WB		CRMP1	I0317-1-AP	Rabbit Poly	ELISA,WB	
CDK5	I0430-1-AP	Rabbit Poly	ELISA,WB		CRY1	I3474-1-AP	Rabbit Poly	ELISA,WB,IF	
CEND1	I3280-1-AP	Rabbit Poly	ELISA,WB		CRY2	I3997-1-AP	Rabbit Poly	ELISA,WB	
<b>Recent Publications</b> Yang X et al., <i>J Proteome Res</i> . 2010 Mar 5;9(3) Wang WS et al., <i>Dis Esophagus</i> .2010 Aug;23(6)	★				CRYAB	I5808-1-AP	Rabbit Poly	ELISA,WB,IHC	
CFL1	I0960-1-AP	Rabbit Poly	ELISA,WB,IHC		CRYBB1	I3760-1-AP	Rabbit Poly	ELISA,WB	
CHGA	I0529-1-AP	Rabbit Poly	ELISA,WB,IHC		CRYBB3	21009-1-AP	Rabbit Poly	ELISA,WB	
CHGA	60135-1-Ig	Mouse Mono	ELISA,WB		CSNK1D	I4388-1-AP	Rabbit Poly	ELISA,WB,IF	
CHGB	I4968-1-AP	Rabbit Poly	ELISA,WB		CSPG4	55027-1-AP	Rabbit Poly	ELISA,WB	
CHMP2B	I2527-1-AP	Rabbit Poly	ELISA,WB		CST3	I2245-1-AP	Rabbit Poly	ELISA,WB	
CHN1	I2048-1-AP	Rabbit Poly	ELISA,WB,IHC		<b>Recent Publications</b> Johnson SL et al., <i>J Neurosci</i> .2008 Jul 23;28(30)	★			
<b>Recent Publications</b> Strunnikova NV et al., <i>Hum Mol Genet</i> . 2010 Jun 15;19(12)	★				CTBP2	I0346-1-AP	Rabbit Poly	ELISA,WB	
CHRNA3 (AChRa3)	I0333-1-AP	Rabbit Poly	ELISA,WB,IHC		CTNNA3	I3974-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	
CHRNA5 (AChRa5)	I3516-1-AP	Rabbit Poly	ELISA,WB		CTNNB1	I7565-1-AP	Rabbit Poly	ELISA,WB	

Antibody	Cat. No	Type	Application	Antibody	Cat. No	Type	Application
 <b>Recent Publications</b> Zhang F et al, <i>Asian Pac J Cancer Prev</i> .2011;12(1) Zhang F et al, <i>J Huazhong Univ Sci Technolog Med Sci</i> .2011 Jun;31(3)	CTNNB1	51067-2-AP	Rabbit Poly	ELISA,WB,IHC	★		
CTNNB1	I3665-1-AP	Rabbit Poly	ELISA,WB				
 <b>Recent Publications</b> Melchor L et al, <i>Breast Cancer Res</i> .2009 Dec 8;11(6)R86 Menon S et al, <i>Nat Immunol</i> . 2007 Nov8(11)1236-45	CUL4A	I0693-1-AP	Rabbit Poly	ELISA,IHC	★		
 <b>Recent Publications</b> Aggarwal P et al, <i>Cancer Cell</i> .2010 Oct 19;18(4)	CUL4B	I2916-1-AP	Rabbit Poly	ELISA,WB,IHC	★		
CYP46A1	I2486-1-AP	Rabbit Poly	ELISA,WB,IHC				
DAG1	I1017-1-AP	Rabbit Poly	ELISA,WB,IHC				
DDB1	I1380-1-AP	Rabbit Poly	ELISA,WB,IHC				
DBH	I0777-1-AP	Rabbit Poly	ELISA,WB,IHC				
DBN1	I0260-1-AP	Rabbit Poly	ELISA,WB				
DCLK1	21699-1-AP	Rabbit Poly	ELISA,WB				
DCTN1	55182-1-AP	Rabbit Poly	ELISA,WB				
DCX	I3925-1-AP	Rabbit Poly	ELISA,WB				
 <b>Recent Publications</b> Fox DA et al, <i>Toxicol Appl Pharmacol</i> .2011 Jun 12 Ming M et al, <i>J Transl Me d</i> .2009;7	DDC	I0166-1-AP	Rabbit Poly	ELISA,WB	★		
 <b>Recent Publications</b> C Malagelada et al, <i>J Neurosci</i> . 2010 Jan 20;30(3) Ben Sahara I et al, <i>Cancer Res</i> .2011 May 3	DDIT4	I0638-1-AP	Rabbit Poly	ELISA,WB,IHC	★		
DDX20	I1324-1-AP	Rabbit Poly	ELISA,WB,IHC				
 <b>Recent Publications</b> Mirza R et al, <i>J Bone Miner Metab</i> .2011 Aug 17 Khuda II et al, <i>Immunology</i> .2010 Sep;131(1)	DHCR24	I0471-1-AP	Rabbit Poly	ELISA,WB,IHC	★		
DISC1	60109-1-Ig	Mouse Mono	ELISA,WB				
DISC1	I5500-1-AP	Rabbit Poly	ELISA,WB,IHC				
DISP1	I2041-1-AP	Rabbit Poly	ELISA,WB				
 <b>Recent Publications</b> Ueno K et al, <i>Mol Carcinog</i> .2011 Jan 25	DKK3	I0365-1-AP	Rabbit Poly	ELISA,WB,IHC	★		
DLG3	I8036-1-AP	Rabbit Poly	ELISA,WB				
DLGAP3	55056-1-AP	Rabbit Poly	ELISA,WB				
 <b>Recent Publications</b> Keophiphath M et al, <i>Mol Endocrinol</i> . 2009 Jan;23(1) da Rocha ST et al, <i>PLoS Genet</i> . 2009 Feb;5(2)	DLK1	I0636-1-AP	Rabbit Poly	ELISA,WB,IHC	★		
DLX1	I3046-1-AP	Rabbit Poly	ELISA,WB				
DLX5	I0592-1-AP	Rabbit Poly	ELISA,WB				
DMD	I2715-1-AP	Rabbit Poly	ELISA,WB				
DNM1	I8205-1-AP	Rabbit Poly	ELISA,WB				
DNM1	65027-1-Ig	Mouse Mono	ELISA,WB,IHC				
DNM2	I4605-1-AP	Rabbit Poly	ELISA,WB				
DNM3	I4737-1-AP	Rabbit Poly	ELISA,WB,IHC				
DOC2B	20574-1-AP	Rabbit Poly	ELISA,WB				
DOCK7	I3000-1-AP	Rabbit Poly	ELISA,WB				
DOK4	I0481-2-AP	Rabbit Poly	ELISA,WB,IHC				
DPYSL2	I4521-1-AP	Rabbit Poly	ELISA,WB,IHC,IF				
DPYSL3	I8969-1-AP	Rabbit Poly	ELISA,WB				
DPYSL5	I0525-1-AP	Rabbit Poly	ELISA,WB,IHC				
DRD2	55084-1-AP	Rabbit Poly	ELISA,WB				
DRD5	20310-1-AP	Rabbit Poly	ELISA,WB				
DTNA	I0741-1-AP	Rabbit Poly	ELISA,WB				
 <b>Recent Publications</b> Kang TH et al, <i>Biochim Biophys Acta</i> .2008 Jan;1783(1)	DUSP6	I0433-1-AP	Rabbit Poly	ELISA,WB	★		
DVL3	I3444-1-AP	Rabbit Poly	ELISA,WB,IF				
 <b>Recent Publications</b> Insinna C et al, <i>Neural Dev</i> .2010 Apr 22;5(1) Zhao X et al, <i>Neurosci Lett</i> .2010 Jul 26;479(2)	DYNC1H1	I2345-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	★		
DYNC111	I3808-1-AP	Rabbit Poly	ELISA,IHC				
E2F1	I2171-1-AP	Rabbit Poly	ELISA,WB,IHC				
EDN3	I0674-1-AP	Rabbit Poly	ELISA,WB,IHC				
 <b>Recent Publications</b> Mizuno K et al, <i>J Urol</i> .2009 Mar;181(3)	EEF1A1	I1402-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	★		
EEF2K	I3510-1-AP	Rabbit Poly	ELISA,WB				
EFEMP2	I2004-1-AP	Rabbit Poly	ELISA,WB				
EFNA3	I2480-1-AP	Rabbit Poly	ELISA,WB				
EFNB1	I2999-1-AP	Rabbit Poly	ELISA,WB				
EIF2AK2	I8244-1-AP	Rabbit Poly	ELISA,WB				
EIF2B2	I1034-1-AP	Rabbit Poly	ELISA,WB,IHC				
EIF2S1	I1170-1-AP	Rabbit Poly	ELISA,WB,IHC,IF				
EIF4E	I1149-1-AP	Rabbit Poly	ELISA,WB,IHC				
ELAVL2	I4008-1-AP	Rabbit Poly	ELISA,WB,IHC				
ELAVL3	55047-1-AP	Rabbit Poly	ELISA,WB				
ELAVL4	I3032-1-AP	Rabbit Poly	ELISA,WB,IHC				
ELF1	55029-1-AP	Rabbit Poly	ELISA,WB				
ELOVL4	55023-1-AP	Rabbit Poly	ELISA,WB				
EMD	I0351-1-AP	Rabbit Poly	ELISA,WB				
ENC1	I5007-1-AP	Rabbit Poly	ELISA,WB				
 <b>Recent Publications</b> Lu Y et al, <i>Mol Cells</i> .2009 Sep 7	ENO1	I1204-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	★		
ENO2	I0149-1-AP	Rabbit Poly	ELISA,WB				
ENO2	55235-1-AP	Rabbit Poly	ELISA,WB				
EPHA1	60155-1-Ig	Mouse Mono	ELISA,WB				
EPHA1	60155-2-Ig	Mouse Mono	ELISA,WB				
EPHA1	60155-3-Ig	Mouse Mono	ELISA,WB				
EPHA1	I8698-1-AP	Rabbit Poly	ELISA,WB				
EPHA7	I3119-1-AP	Rabbit Poly	ELISA,WB				
EPHA8	I3724-1-AP	Rabbit Poly	ELISA,WB				



Antibody	Cat. No	Type	Application		Antibody	Cat. No	Type	Application		
EPS15L1	21243-I-AP	Rabbit Poly	ELISA,WB	Syn	FOXH1	20268-I-AP	Rabbit Poly	ELISA,WB	Vis	
ERBB2	18299-I-AP	Rabbit Poly	ELISA,WB	One	FOXJ3	21240-I-AP	Rabbit Poly	ELISA,WB	Vis	
ERC1	10619-I-AP	Rabbit Poly	ELISA,WB	Syn	FOXO4	21535-I-AP	Rabbit Poly	ELISA,WB	Vis	
ERC2	21396-I-AP	Rabbit Poly	ELISA,WB	Syn	FOXP2	20529-I-AP	Rabbit Poly	ELISA,WB	Vis	
ERG	14356-I-AP	Rabbit Poly	ELISA,WB,IHC	AD	FRS3	12249-I-AP	Rabbit Poly	ELISA,WB	AD	
ESPN	20717-I-AP	Rabbit Poly	ELISA,WB	H						
ESR2	14007-I-AP	Rabbit Poly	ELISA,WB	AD	 <b>Recent Publications</b> Deng HX et al., <i>Nature</i> . 2011 Aug 21 Deng HX et al., <i>Ann Neural</i> . 2010 Jun;67(6)				★	
ETV4	10684-I-AP	Rabbit Poly	ELISA,WB,IHC	NDR	FUS	11570-I-AP	Rabbit Poly	ELISA,WB,IF	ALB, FTD, Neu	
 <b>Recent Publications</b> Takeuchi H et al., <i>Cell Microbiol</i> . 2010 Dec 14					 <b>Recent Publications</b> Neumann et al., <i>Brain</i> , Aug 2011 (ahead of print)					★
EXOC3	14703-I-AP	Rabbit Poly	ELISA,WB,IHC	Syn	FUS	60160-I-Ig	Mouse Mono	ELISA,WB,IHC	ALB, FTD, Neu	
EXOC4	11913-I-AP	Rabbit Poly	ELISA,WB,IHC	Syn	FXR2	12552-I-AP	Rabbit Poly	ELISA,WB	De, Syn	
EYA2	11314-I-AP	Rabbit Poly	ELISA,WB,IHC	Vis	FZD9	13865-I-AP	Rabbit Poly	ELISA,WB	NDR	
EYA3	21196-I-AP	Rabbit Poly	ELISA,WB	Vis	GABBR1	13940-I-AP	Rabbit Poly	ELISA,WB	AD	
FA2H	15452-I-AP	Rabbit Poly	ELISA,WB,IHC	AX	GABRA1	12410-I-AP	Rabbit Poly	ELISA,WB	Ep	
 <b>Recent Publications</b> Xi L et al., <i>J Cell Mol Med</i> . 2011 Jan 20					GABRA3	12708-I-AP	Rabbit Poly	ELISA,WB	Syn	
FABP3	10676-I-AP	Rabbit Poly	ELISA,WB,IHC	AD	GABRB1	20183-I-AP	Rabbit Poly	ELISA,WB	Syn	
FAM38A	15939-I-AP	Rabbit Poly	ELISA,WB	AD	GABRD	15623-I-AP	Rabbit Poly	ELISA,WB	Ep	
 <b>Recent Publications</b> Chen W et al., <i>Biochem Pharmacol</i> . 2010 Jul 15;80(2)					GABRG2	14104-I-AP	Rabbit Poly	ELISA,WB,IF	Ep, Syn	
FAS	13098-I-AP	Rabbit Poly	ELISA,WB,IHC	AD	GAD1	10408-I-AP	Rabbit Poly	ELISA,WB	De, So	
FBLN1	20425-I-AP	Rabbit Poly	ELISA,WB	Vis	GAN	14305-I-AP	Rabbit Poly	ELISA,WB	AX	
FBN2	20252-I-AP	Rabbit Poly	ELISA,WB	Vis	GAP43	16971-I-AP	Rabbit Poly	ELISA,WB,IHC	GCD, Syn	
 <b>Recent Publications</b> Chen MC et al., <i>Hepatology</i> . 2011 Jan;53(1)					GBP2	11854-I-AP	Rabbit Poly	ELISA,WB,IHC	So	
FBXO7	10696-I-AP	Rabbit Poly	ELISA,WB,IHC	PD	GCG	15954-I-AP	Rabbit Poly	ELISA,WB	NDR	
FETUB	18052-I-AP	Rabbit Poly	ELISA,WB	NDR	 <b>Recent Publications</b> Kimura A et al., <i>Neurology</i> . 2010 Apr 27;74(17) Li X et al., <i>Neurobiol Dis</i> . 2009 Nov;36(2)					★
FGF1	17400-I-AP	Rabbit Poly	ELISA,WB,IHC	AD, NDR	GDII	10249-I-AP	Rabbit Poly	ELISA,WB,IHC	MBX	
FGF13	13201-I-AP	Rabbit Poly	ELISA,WB,IHC	NDR	GDII	55214-I-AP	Rabbit Poly	ELISA	Syn	
FGFR2	13042-I-AP	Rabbit Poly	ELISA,WB	NDR	 <b>Recent Publications</b> Momotani K et al., <i>Circ Res</i> . 2011 Sep 1 Mitchell DC et al., <i>Curr Mol Med</i> . 2011 Jun 13					★
FGFR2	60106-I-Ig	Mouse Mono	ELISA,WB	NDR	GEFT	14839-I-AP	Rabbit Poly	ELISA,WB,IHC	NDR	
FGFR4	11098-I-AP	Rabbit Poly	ELISA,WB,IHC	NSC	GEFT	17028-I-AP	Rabbit Poly	ELISA,WB	NDR	
 <b>Recent Publications</b> L Ding et al., <i>J Cell Mol Med</i> , 2009; 15(1):72-85 J Lin et al., <i>Int J Biochem Cell Biol</i> , 2009 Jul;41(7)1613-8					GFAP	16825-I-AP	Rabbit Poly	ELISA,WB,IHC	AD, NSC	
FHL1	10991-I-AP	Rabbit Poly	ELISA,WB,IHC	MD	GFRA2	55038-I-AP	Rabbit Poly	ELISA,WB	NDR	
FKTN	18276-I-AP	Rabbit Poly	ELISA,WB,IHC	MD	GH1	17867-I-AP	Rabbit Poly	ELISA,WB	Neu	
FLOT1	15571-I-AP	Rabbit Poly	ELISA,WB	AD	GJA1	15386-I-AP	Rabbit Poly	ELISA,WB	MB, C	
FLT3	21049-I-AP	Rabbit Poly	ELISA,WB	PD	Gli2	18989-I-AP	Rabbit Poly	ELISA,WB	NST	
 <b>Recent Publications</b> Mozhui K et al., <i>PLoS Genet</i> . 2008 Nov;4(11)					GLRA3	13145-I-AP	Rabbit Poly	ELISA,WB	Syn	
FMN2	11259-I-AP	Rabbit Poly	ELISA,IHC	NDR	 <b>Recent Publications</b> López-Terrada D et al., <i>Hum Pathol</i> . 2009 Jun;40(6)					★
FMR1	13755-I-AP	Rabbit Poly	ELISA,WB,IHC,IF	De, MB, Syn	GLUL	11037-2-AP	Rabbit Poly	ELISA,WB	AD	
FNI	15613-I-AP	Rabbit Poly	ELISA,WB,IHC	One	 <b>Recent Publications</b> Li YL et al., <i>Eur J Cancer</i> . 2010 Jul;46(11)					★
FOLH1	13163-I-AP	Rabbit Poly	ELISA,WB,IHC	AD	GMFB	10690-I-AP	Rabbit Poly	ELISA,WB,IHC	NDR	
FOXA1	20411-I-AP	Rabbit Poly	ELISA,WB	Vis	GMFB	60062-I-Ig	Mouse Mono	ELISA,WB	NDR	
FOXG1	12764-I-AP	Rabbit Poly	ELISA,WB	NDR, NST	GNAQ	13927-I-AP	Rabbit Poly	ELISA,WB	NST	
					GNAS	10150-2-AP	Rabbit Poly	ELISA,WB	AD	



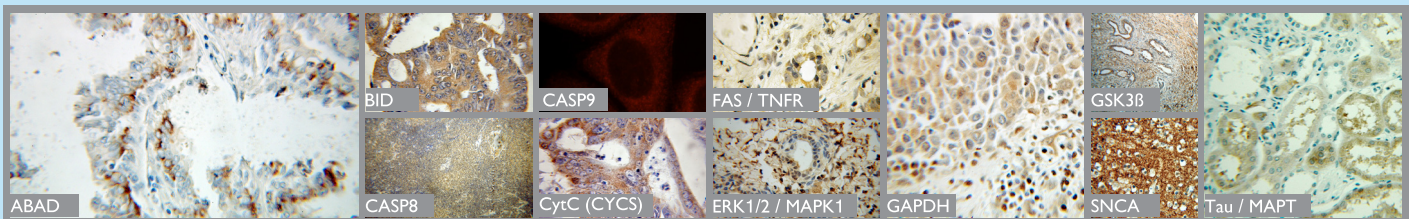
### Alzheimer's disease signaling pathway

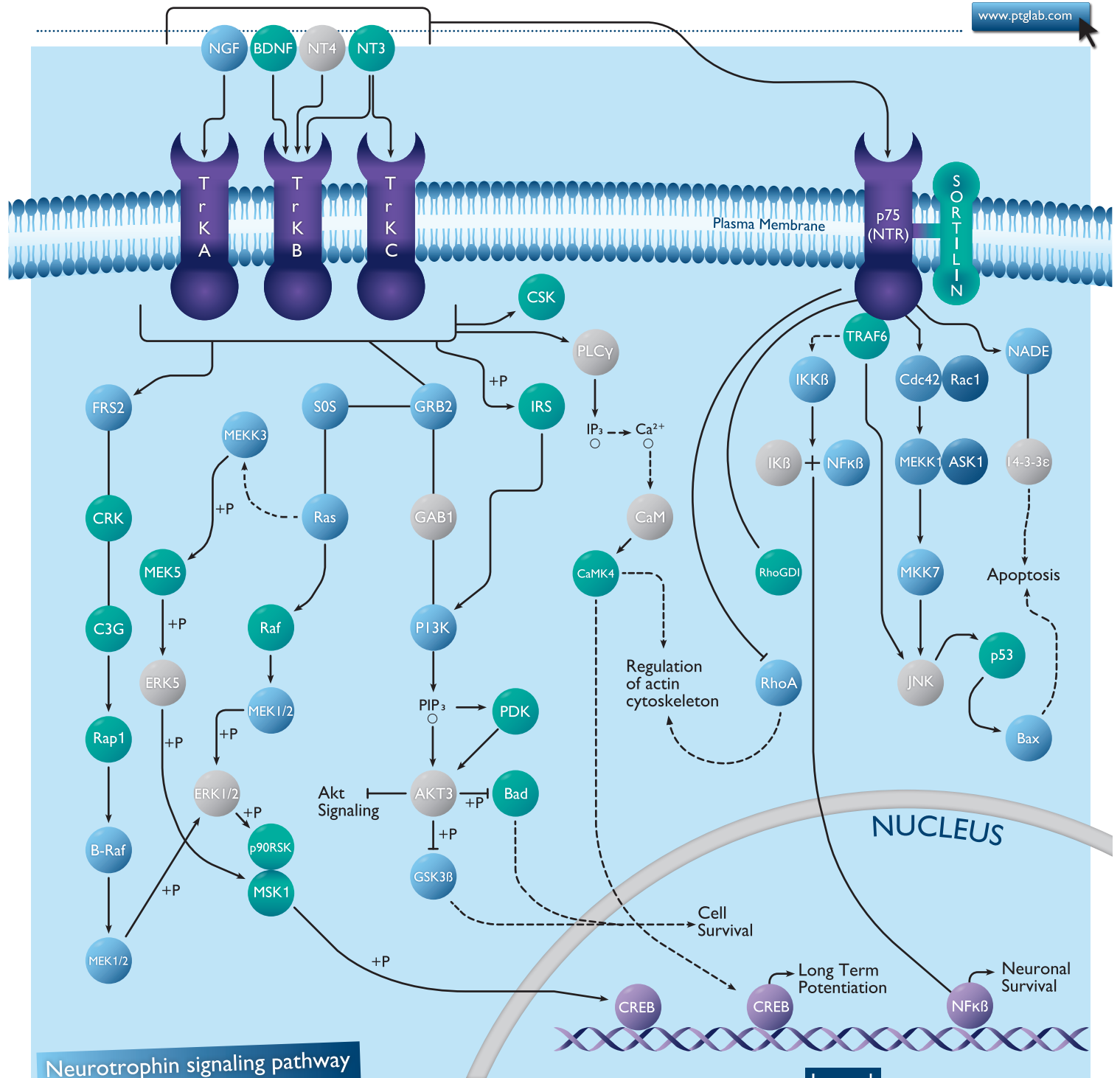
Alzheimer's disease (AD) is a chronic disorder that slowly destroys neurons and causes serious cognitive disability. AD is associated with senile plaques and neurofibrillary tangles (NFTs). Amyloid-beta, a major component of senile plaques, has various pathological effects on cell and organelle function. Extracellular amyloid-beta oligomers may activate caspases through activation of cell surface death receptors. Alternatively, intracellular amyloid-beta may contribute to pathology by facilitating tau hyper-phosphorylation, disrupting mitochondria function and triggering calcium

dysfunction. To date, genetic studies have revealed four genes that may be linked to autosomal dominant or familial early onset AD (FAD). These four genes include: amyloid precursor protein (APP), presenilin 1 (PS1), presenilin 2 (PS2) and apolipoprotein E (ApoE). All mutations associated with APP and PS proteins can lead to an increase in the production of amyloid-beta peptides, specifically the more amyloidogenic form, amyloid-beta 42. FAD-linked PS1 mutation downregulates the unfolded protein response and leads to vulnerability to ER stress.

#### Legend

--->	Indirectly Activates
—	Association
—	Inhibits
+P	Phosphorylates
+	Dissociation
—>	Directly Activates



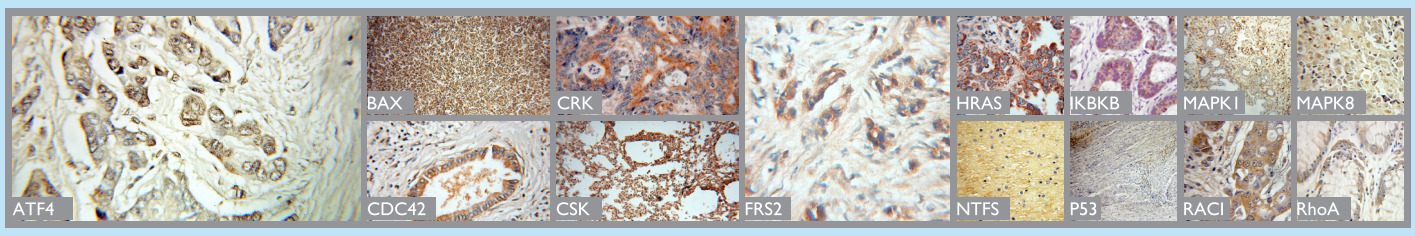


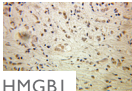
### Neurotrophin signaling pathway



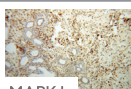
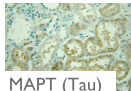
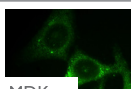
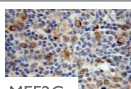







The neurotrophin family of signaling factors comprise nerve growth factor (NGF), brain derived neurotrophic factor (BDNF) and neurotrophins NT-3 and NT-4. These factors are involved in the differentiation and survival of neural cells. The best characterized receptors for these trophic factors are the tropomyosin-related tyrosine kinase receptors TrkA, TrkB, and TrkC, and a member of the tumor necrosis factor receptor family, NGFR (p75NTR). Neurotrophin/Trk signaling is regulated by connection to a variety of intracellular signaling cascades including the MAPK, PI-3

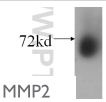
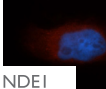
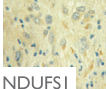
kinase and PLC pathways, transmitting positive signals like enhanced survival and growth. In contrast, signaling via the p75NTR receptor transmits both positive and negative signals. These signals play an important role for neural development and additional higher-order activities such as learning and memory.

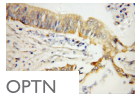
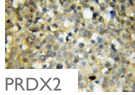
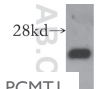
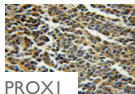
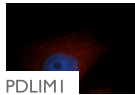
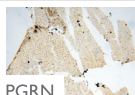
Legend	
--->	Indirectly Activates
—	Association
—	Inhibits
+P	Phosphorylates
+	Dissociation
→	Directly Activates

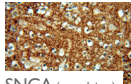


Antibody	Cat. No	Type	Application		Antibody	Cat. No	Type	Application		
GNAT1	55167-I-AP	Rabbit Poly	ELISA		 <b>Recent Publications</b> Song G et al., <i>J Clin Pathol</i> .2009 Sep;62(9) Chen N et al., <i>Proteomics</i> .2008 Dec;8(23-24)	10701-I-AP	Rabbit Poly	ELISA,WB		
GNB3	I0081-I-AP	Rabbit Poly	ELISA,WB			HNRNPA2B1	I4813-I-AP	Rabbit Poly	ELISA,WB,IHC	
GNB3	I5388-I-AP	Rabbit Poly	ELISA,WB,IHC		HOMER1	I2433-I-AP	Rabbit Poly	ELISA,WB,IHC		
GNL3	I5060-I-AP	Rabbit Poly	ELISA,WB		HOMER3	I6624-I-AP	Rabbit Poly	ELISA,WB		
GNRHR	I9950-I-AP	Rabbit Poly	ELISA,WB,IHC		HPS1	I5077-I-AP	Rabbit Poly	ELISA,WB		
GOSR2	I2095-I-AP	Rabbit Poly	ELISA,WB		HRH2	I3414-I-AP	Rabbit Poly	ELISA,WB		
GPC1	I6700-I-AP	Rabbit Poly	ELISA,WB		HSD17B10	I0648-I-AP	Rabbit Poly	ELISA,WB,IHC		
GPC4	I3048-I-AP	Rabbit Poly	ELISA,WB		HSD17B10	60069-I-Ig	Mouse Mono	ELISA,WB		
GPI	I5171-I-AP	Rabbit Poly	ELISA,WB		Hsp105/HSPH1	I3383-I-AP	Rabbit Poly	ELISA,WB,IF		
GPR37	I4820-I-AP	Rabbit Poly	ELISA,WB		Hsp27/HSBP2	21755-I-AP	Rabbit Poly	ELISA,WB		
 <b>Recent Publications</b> Li Y et al., <i>J Biol Chem</i> .2010 Apr 23;285(17)	GPRIN1	I3771-I-AP	Rabbit Poly	ELISA,WB		Hsp40/DNAJB1	I3174-I-AP	Rabbit Poly	ELISA,WB,IHC,IF	
	GPRIN3	20212-I-AP	Rabbit Poly	ELISA,WB		Hsp70	21206-I-AP	Rabbit Poly	ELISA,WB	
 <b>Recent Publications</b> Casimiro T et al., <i>Mol Cell Neurosci</i> .2011 Jul 23	GRIA2	I1994-I-AP	Rabbit Poly	ELISA,WB		HspA8	I0654-I-AP	Rabbit Poly	ELISA,WB,IHC	
	GRID1	I3040-I-AP	Rabbit Poly	ELISA,WB,IHC		HSPBP1	I0211-I-AP	Rabbit Poly	ELISA,WB,IHC	
GRIK2	I3597-I-AP	Rabbit Poly	ELISA,WB		HTR2C	I9959-I-AP	Rabbit Poly	ELISA,WB		
GRIN2A	I9953-I-AP	Rabbit Poly	ELISA,WB		HTR3A	I0443-I-AP	Rabbit Poly	ELISA,WB,IHC		
GRIN2B	I9954-I-AP	Rabbit Poly	ELISA,WB		HTRA1	55011-I-AP	Rabbit Poly	ELISA,WB		
GRINA	I9953-I-AP	Rabbit Poly	ELISA,WB		 <b>Recent Publications</b> H Behbahani et al., <i>Neurochem Int</i> .2010 Nov;57(6)	HTRA2	I5775-I-AP	Rabbit Poly	ELISA,WB,IHC	
GRINB	I9954-I-AP	Rabbit Poly	ELISA,WB			 <b>Recent Publications</b> Suzuki AM et al., <i>J Dent Res</i> .2009 Dec;88(12) Hu XM et al., <i>Acta Pharmacol Sin</i> .2004 Jul;25(7)	ICAM1	I0020-I-AP	Rabbit Poly	ELISA,WB
GRM1	I9955-I-AP	Rabbit Poly	ELISA,WB		 <b>Recent Publications</b> Rinella ME et al., <i>Hepatology</i> .2011 Jul 11 Ohkubo Y et al., <i>Int J Radiat Oncol Biol Phys</i> .2010 Dec 1;78(5)		ICAM1	I0831-I-AP	Rabbit Poly	ELISA,WB,IHC
GSK3A	I3419-I-AP	Rabbit Poly	ELISA,WB			ICAM1	I5364-I-AP	Rabbit Poly	ELISA,WB,IHC	
GSK3B	51065-I-AP	Mouse Mono	ELISA,WB,IHC		ID1	I8475-I-AP	Rabbit Poly	ELISA,WB		
GSTP1	I5902-I-AP	Rabbit Poly	ELISA,WB		 <b>Recent Publications</b> L Dang et al., <i>Nature</i> , 2009 Dec 10462(7274)739-44 T Oghihara et al., <i>J Biol Chem</i> ., 2010 Feb 19285(8)5392-404	IDH1	I2332-I-AP	Rabbit Poly	ELISA,WB,IHC	
GTF2I	I0499-I-AP	Rabbit Poly	ELISA,WB,IF			IDH2	I5932-I-AP	Rabbit Poly	ELISA,WB,IHC	
GUCY2D	55127-I-AP	Rabbit Poly	ELISA,WB		IFNG	I5365-I-AP	Rabbit Poly	ELISA,WB,IHC		
HAS3	I5609-I-AP	Rabbit Poly	ELISA,WB		IFNG	60101-I-Ig	Mouse Mono	ELISA,WB		
 <b>Recent Publications</b> Yuan JH et al., <i>Hepatology</i> .2011 Aug 11	HDAC4	I6165-I-AP	Rabbit Poly	ELISA,WB,IHC		IGK	I4678-I-AP	Rabbit Poly	ELISA,WB,IHC	
	HDAC4	I7449-I-AP	Rabbit Poly	ELISA,WB,IHC		 <b>Recent Publications</b> Zheng Z et al., <i>J Immunol</i> .2011 Aug	IKKB	I5649-I-AP	Rabbit Poly	ELISA,WB
HDAC4	60105-I-Ig	Rabbit Poly	ELISA,WB		IKKY		I8474-I-AP	Rabbit Poly	ELISA,WB,IHC	
 <b>Recent Publications</b> Tuusa JT et al., <i>Mol Cell Biochem</i> .2011 Jan 14 Zhuo JM et al., <i>J Alzheimers Dis</i> .2010;20(2)	HERPUD1	I0813-I-AP	Rabbit Poly	ELISA,WB,IHC		IL1RN	I0844-I-AP	Rabbit Poly	ELISA,IHC	
	HEXA	I1317-I-AP	Rabbit Poly	ELISA,WB		INPP5A	21723-I-AP	Rabbit Poly	ELISA,WB	
HHB	I6216-I-AP	Rabbit Poly	ELISA,WB,IHC		INSR	20433-I-AP	Rabbit Poly	ELISA,WB		
HLA-B	I7260-I-AP	Rabbit Poly	ELISA,WB,IHC		ISLI	I5661-I-AP	Rabbit Poly	ELISA,WB		
HLA-DRB1	I5862-I-AP	Rabbit Poly	ELISA,WB		ITGB1	I2594-I-AP	Rabbit Poly	ELISA,WB		
 <b>Recent Publications</b> DiNorcia J et al., <i>Gastrointest Surg</i> .2010 Nov;14(11) Luan ZG et al., <i>Immunobiology</i> .2010 Dec;215(12)	HMGB1	I0829-I-AP	Rabbit Poly	ELISA,WB,IHC		ITM2C	60095-I-Ig	Mouse Mono	ELISA,WB	

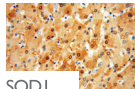
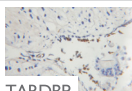
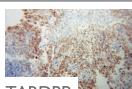
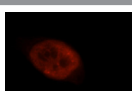
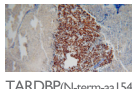
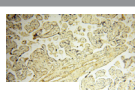
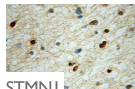
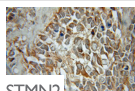

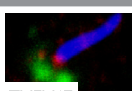
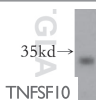
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IVNS1ABP	I4741-I-AP	Rabbit Poly	ELISA,WB,IHC	MAOA	I0539-I-AP	Rabbit Poly	ELISA,IHC
 <p><b>Recent Publications</b> Choo YS et al., <i>Arch Neurol</i>. 2011 May;68(5)</p>				 <p><b>Recent Publications</b> D Kessel et al., <i>Photochem Photobiol Sci</i>. 2007 Dec;6(12) Reiners JJ et al., <i>Autophagy</i>. 2010 Jan;6(1)</p>			
JTVI	I0424-I-AP	Rabbit Poly	ELISA,WB	MAP1B	21633-I-AP	Rabbit Poly	ELISA,WB
KALRN	I9740-I-AP	Rabbit Poly	ELISA,WB	MAP1LC3A	I2135-I-AP	Rabbit Poly	ELISA,WB
KARS	I4951-I-AP	Rabbit Poly	ELISA,WB,IHC	MAP1LC3A	I8722-I-AP	Rabbit Poly	ELISA,WB
KAT5	I0827-I-AP	Rabbit Poly	ELISA,WB,IHC	MAP1LC3B	I4600-I-AP	Rabbit Poly	ELISA,WB,IHC
KCND2	21298-I-AP	Rabbit Poly	ELISA,WB	MAP1LC3B	I8725-I-AP	Rabbit Poly	ELISA,WB
KCNIP3	I2032-I-AP	Rabbit Poly	ELISA,WB,IHC	MAP2	I7490-I-AP	Rabbit Poly	ELISA,WB,IHC
KCNJ10	I2503-I-AP	Rabbit Poly	ELISA,WB	MAP2K2	I1049-I-AP	Rabbit Poly	ELISA,WB
KCNJ11	I6920-I-AP	Rabbit Poly	ELISA,WBIF	MAPK1	I6443-I-AP	Rabbit Poly	ELISA,WB
KCNJ6	21647-I-AP	Rabbit Poly	ELISA,WB	 <p><b>Recent Publications</b> Zhang Y et al., <i>PLoS One</i>. 2011;6(7)</p>			
KDM5C	I4426-I-AP	Rabbit Poly	ELISA,WB	MAPK1	51068-I-AP	Mouse Mono	ELISA,WB,IHC
KIAA1191	20637-I-AP	Rabbit Poly	ELISA,WB	MAPK3	I1257-I-AP	Rabbit Poly	ELISA,WB,IHC
KIAA1199	21129-I-AP	Rabbit Poly	ELISA,WB	MAPK7	I0036-2-AP	Rabbit Poly	ELISA,WB
KIF5A	21186-I-AP	Rabbit Poly	ELISA,WB	MAPK8IP1	I4568-I-AP	Rabbit Poly	ELISA,WB
KIRREL3	I8055-I-AP	Rabbit Poly	ELISA,WB	 <p><b>Recent Publications</b> Yang JY et al., <i>BMC Cancer</i>. 2010;10 Rodriguez-Navarro JA et al., <i>Hum Mol Genet</i>. 2008 Oct 15;17(20)</p>			
KLF12	I3156-I-AP	Rabbit Poly	ELISA,WB	MAPT (Tau)	I0274-I-AP	Rabbit Poly	ELISA,WB,IHC
KLF5	21017-I-AP	Rabbit Poly	ELISA,WB	MBP	I0458-I-AP	Rabbit Poly	ELISA,WB
KLF7	I3125-I-AP	Rabbit Poly	ELISA,WB	 <p><b>Recent Publications</b> B Wen et al., <i>J Neurol Neurosurg Psychiatry</i>. 2010 Feb;81(2)</p>			
KLK8	I4232-I-AP	Rabbit Poly	ELISA,WB	MDK	I1009-I-AP	Rabbit Poly	ELISA,IHC,IF
LDB1	I6650-I-AP	Rabbit Poly	ELISA,WB,IHC	MECP2	I0861-I-AP	Rabbit Poly	ELISA,WB,IHC
LDLR	I0785-I-AP	Rabbit Poly	ELISA,WB	MEF2A	I2382-I-AP	Rabbit Poly	ELISA,WB
LECT2	I8317-I-AP	Rabbit Poly	ELISA,WB	 <p><b>Recent Publications</b> LA Cocas et al., <i>J Neurosci</i>. 2011 Apr 6;31(14):5313-5324 Teissier A et al., <i>Cereb Cortex</i>. 2011 Jun 10</p>			
LGII	I2483-I-AP	Rabbit Poly	ELISA,WB	MEF2C	I0056-I-AP	Rabbit Poly	ELISA,WB,IHC
LG12	I8044-I-AP	Rabbit Poly	ELISA,WB	MEF2C	60124-2-Ig	Mouse Mono	ELISA,WB
LG13	21919-I-AP	Rabbit Poly	ELISA,WB	MEF2C	20326-I-AP	Rabbit Poly	ELISA,WB
LIMK1	I9699-I-AP	Rabbit Poly	ELISA,WB	 <p><b>Recent Publications</b> RR Waclaw et al., <i>J Neurosci</i>. 2010 May 19;30(20) Martinez-Fernandez A et al., <i>J Cardiovasc Transl Res</i>. 2010 Feb 1;3(1)</p>			
LIMK2	I2350-I-AP	Rabbit Poly	ELISA,WB	MEF2C	I0056-I-AP	Rabbit Poly	ELISA,WB,IHC
 <p><b>Recent Publications</b> F Jia et al., <i>Nat Methods</i>. 2010 Mar;7(3) West JA et al., <i>Nature</i>. 2009 Aug 13;460(7257)</p>							
LIN28	I1724-I-AP	Rabbit Poly	ELISA,WB,IHC	MEF2C	I6953-I-AP	Rabbit Poly	ELISA,WB
LIN28	I6177-I-AP	Rabbit Poly	ELISA,WB,IHC	MEF2C	I8290-I-AP	Rabbit Poly	ELISA,WB,IHC
LIN7C	I4656-I-AP	Rabbit Poly	ELISA,WB	MEF2C	I8291-I-AP	Rabbit Poly	ELISA,WB,IHC
 <p><b>Recent Publications</b> Y Zhao et al., <i>Proteome Sci</i>. 2010 Jun 7;8:28 M Nakamura et al., <i>Exp Gerontol et al.</i>, 2009;44(6-7):375-82</p>							
LMNA	I0298-I-AP	Rabbit Poly	ELISA,WB,IF	MEF2C	I8293-I-AP	Rabbit Poly	ELISA,WB,IHC
 <p><b>Recent Publications</b> J Zheng and OA Bizzozero et al., <i>J Neurochem</i>. 2011 Apr;117(1):143-53.</p>							
LONPI	I5440-I-AP	Rabbit Poly	ELISA,WB,IHC	MEIS2	I1550-I-AP	Rabbit Poly	ELISA,WB,IHC
LPHN3	20045-I-AP	Rabbit Poly	ELISA,WB	MGLL	I4986-I-AP	Rabbit Poly	ELISA,WB,IHC
LRRTM1	I4288-I-AP	Rabbit Poly	ELISA,WB,IHC	MINK1	I3137-I-AP	Rabbit Poly	ELISA,WB
LRRTM4	I6976-I-AP	Rabbit Poly	ELISA,WB	MKRN2	I2238-I-AP	Rabbit Poly	ELISA,WB
LSAMP	I3600-I-AP	Rabbit Poly	ELISA,WB	MME	I8008-I-AP	Rabbit Poly	ELISA,WB
LZIC	I4543-I-AP	Rabbit Poly	ELISA,WB	MME	60034-I-Ig	Mouse Mono	ELISA,WB
LZTS1	20878-I-AP	Rabbit Poly	ELISA,WB				

Antibody	Cat. No	Type	Application	Antibody	Cat. No	Type	Application
 MMP2	<b>Recent Publications</b> Zhang H <i>et al.</i> , <i>Mol Cell Biochem</i> .2011 May 18			NENF	15760-1-AP	Rabbit Poly	ELISA,WB
	10373-2-AP	Rabbit Poly	ELISA,WB	NENF	60131-1-Ig	Mouse Mono	ELISA,WB
 MOG	<b>Recent Publications</b> Cong H <i>et al.</i> , <i>J Virol</i> .2011 Aug 31			<b>Recent Publications</b> SR Amith Glycoconj J. 2009 Dec;26(9) Jayanth P <i>et al.</i> , <i>Cell Signal</i> .2010 Aug;22(8)			
	12690-1-AP	Rabbit Poly	ELISA,WB	NEU4	12995-1-AP	Rabbit Poly	ELISA,WB,IHC
MPP5	17710-1-AP	Rabbit Poly	ELISA,WB	NFIA	11750-1-AP	Rabbit Poly	ELISA,WB,IHC
MPPED2	13270-1-AP	Rabbit Poly	ELISA,WB	NFKB1 (p105 & p50 specific)	15506-1-AP	Rabbit Poly	ELISA,WB
MRE11A	10744-1-AP	Rabbit Poly	ELISA,WB,IHC	NFKB1	14220-1-AP	Rabbit Poly	ELISA,WB
MSTN	19142-1-AP	Rabbit Poly	ELISA,WB,IHC	NFKB2	10409-2-AP	Rabbit Poly	ELISA,WB,IHC
MT3	12179-1-AP	Rabbit Poly	ELISA,IHC	NGB	13499-1-AP	Rabbit Poly	ELISA,WB,IHC
MTPN	13508-1-AP	Rabbit Poly	ELISA,WB	NGFR	55014-1-AP	Rabbit Poly	ELISA,WB
MYBPC3	19977-1-AP	Rabbit Poly	ELISA,WB	NHLRC1	21310-1-AP	Rabbit Poly	ELISA,WB
MYCN	10159-2-AP	Rabbit Poly	ELISA,WB,IHC	NKX2-5	13921-1-AP	Rabbit Poly	ELISA,WB
MYH2	55069-1-AP	Rabbit Poly	ELISA,WB	NLGN4Y	13489-1-AP	Rabbit Poly	ELISA,WB
MYH4	20140-1-AP	Rabbit Poly	ELISA,WB,IHC	NME1	11086-2-AP	Rabbit Poly	ELISA,WB,IHC
MYLK	21642-1-AP	Rabbit Poly	ELISA,WB	NNAT	15259-1-AP	Rabbit Poly	ELISA,WB
MYLK3	21527-1-AP	Rabbit Poly	ELISA,WB	NOL3	10846-2-AP	Rabbit Poly	ELISA,WB,IHC
MYO7A	20720-1-AP	Rabbit Poly	ELISA,WB	NOVA2	55002-1-AP	Rabbit Poly	ELISA,WB
MYOM1	20360-1-AP	Rabbit Poly	ELISA,WB,IHC	NPAS1	13701-1-AP	Rabbit Poly	ELISA,WB,IHC
MYOT	10731-1-AP	Rabbit Poly	ELISA,WB,IHC	<b>Recent Publications</b> Zhang L <i>et al.</i> , <i>Mol Biol Rep</i> .2010 Dec 16			
NAE1	14863-1-AP	Rabbit Poly	ELISA,WB	NPTX2	10889-1-AP	Rabbit Poly	ELISA,WB,IHC
NAV2	11875-1-AP	Rabbit Poly	ELISA,WB	NPY	12833-1-AP	Rabbit Poly	ELISA,IHC
NBN	55025-1-AP	Rabbit Poly	ELISA,WB	NR2E3	14246-1-AP	Rabbit Poly	ELISA,WB,IHC
NCAM1	14255-1-AP	Rabbit Poly	ELISA,IHC	<b>Recent Publications</b> D Albino <i>et al et al.</i> , <i>Cancer</i> . 2008 Sep 15; 113(6)			
NCAM2	13850-1-AP	Rabbit Poly	ELISA,WB,IHC	NR4A2	10975-2-AP	Rabbit Poly	ELISA,WB,IHC
NCKAP1	12140-1-AP	Rabbit Poly	ELISA,WB,IHC	NRG1	10527-1-AP	Rabbit Poly	ELISA,WB,IHC
NDE1	60165-1-Ig	Mouse Mono	ELISA,WB	NRGN	10440-1-AP	Rabbit Poly	ELISA,WB
 NDE1	<b>Recent Publications</b> C Lam <i>et al.</i> , <i>J Cell Sci</i> .2010 Jan 15; 123 Bakircioglu M <i>et al.</i> , <i>Am J Hum Genet</i> .2011 May 13;88(5)			NRP1	10612-1-AP	Rabbit Poly	ELISA,WB
	10233-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	NRP1	60067-1-Ig	Mouse Mono	ELISA,WB,IHC
 NDEL1	<b>Recent Publications</b> Sumigray KD <i>et al.</i> , <i>J Cell Biol</i> .2011 Aug 15			NRP2	16118-1-AP	Rabbit Poly	ELISA,WB
	17262-1-AP	Rabbit Poly	ELISA,WB	NRXN1	55051-1-AP	Rabbit Poly	ELISA,WB
NDRG2	12015-1-AP	Rabbit Poly	ELISA,WB,IHC	NTF3	18084-1-AP	Rabbit Poly	ELISA,WB,IHC
NDRG4	12184-1-AP	Rabbit Poly	ELISA,WB,IHC	NTF4	12297-1-AP	Rabbit Poly	ELISA,WB
 NDUFS1	<b>Recent Publications</b> Shen SM <i>et al.</i> , <i>FEBS Lett</i> .2011 Jun 12 Alvarez-Fischer D <i>et al.</i> , <i>Nat Neurosci</i> .2011 Sep 4			NTNG1	12910-2-AP	Rabbit Poly	ELISA,WB
	12444-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	NTRK2	13129-1-AP	Rabbit Poly	ELISA,WB
NDUFS7	15728-1-AP	Rabbit Poly	ELISA,WB,IHC	NTRK3	11999-1-AP	Rabbit Poly	ELISA,WB
 NDUFV1	<b>Recent Publications</b> Kelly-Aubert M <i>et al.</i> , <i>Hum Mol Genet</i> .2011 May 10			NUDC	10681-1-AP	Rabbit Poly	ELISA,WB,IHC
	11238-1-AP	Rabbit Poly	ELISA,WB,IHC	NUMB	11876-1-AP	Rabbit Poly	ELISA,WB
NEFH	21471-1-AP	Rabbit Poly	ELISA,WB	NUMB	18701-1-AP	Rabbit Poly	ELISA,WB
NEFL	60189-1-Ig	Mouse Mono	ELISA,WB	NUMB	60137-1-Ig	Mouse Mono	ELISA,WB
NEFM	20664-1-AP	Rabbit Poly	ELISA,WB	<b>Recent Publications</b> Rasin MR <i>et al.</i> , <i>Nat Neurosci</i> .2007 Jul;10(7) Moran TB <i>et al.</i> , <i>Mol Endocrinol</i> .2011 Jan;25(1)			
NELF	12244-1-AP	Rabbit Poly	ELISA,WB,IHC	NUMBL	10111-1-AP	Rabbit Poly	ELISA,WB,IHC,IF
				OLFM1	10079-1-AP	Rabbit Poly	ELISA,WB,IHC
				OLFM3	12596-1-AP	Rabbit Poly	ELISA,WB

Antibody	Cat. No	Type	Application	Antibody	Cat. No	Type	Application
OLIG2	I3999-1-AP	Rabbit Poly	ELISA,WB,IHC	PNMA1	I3631-1-AP	Rabbit Poly	ELISA,WB,IHC
OLR1	I1837-1-AP	Rabbit Poly	ELISA,WB	POMT2	I3277-1-AP	Rabbit Poly	ELISA,IHC
OPRL1	I2970-1-AP	Rabbit Poly	ELISA,IHC	POU3F2	I4596-1-AP	Rabbit Poly	ELISA,WB,IHC
 <b>Recent Publications</b> Meng Q et al., <i>Mol Biol Rep</i> ., 2011 Jun 17 Osawa T et al., <i>Neuropathology</i> , 2011 Feb 1				POU3F2	I8998-1-AP	Rabbit Poly	ELISA,WB
OPTN	I0837-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	PPARG	I6643-1-AP	Rabbit Poly	ELISA,WB
OTX2	I3497-1-AP	Rabbit Poly	ELISA,WB,IHC	PPARG	60127-1-Ig	Mouse Mono	ELISA,WB
P2RY14	20190-1-AP	Rabbit Poly	ELISA,WB,IHC	PPP1R9B	55129-1-AP	Rabbit Poly	ELISA,WB
PAFAH1B3	20564-1-AP	Rabbit Poly	ELISA,WB	PPP3CA	I3422-1-AP	Rabbit Poly	ELISA,WB,IHC
PAFAH1B3	I0634-1-AP	Rabbit Poly	ELISA,WB	PQBP1	I6264-1-AP	Rabbit Poly	ELISA,WB
PAK6	I3539-1-AP	Rabbit Poly	ELISA,WB,IHC	PRDX1	I5816-1-AP	Rabbit Poly	ELISA,WB,IHC
PALLD	I6179-1-AP	Rabbit Poly	ELISA,WB	 <b>Recent Publications</b> Yang S et al., <i>Biol Reprod</i> .2011 Jan 19 Jaraj SJ et al., <i>APMIS</i> .2010 May;118(5)			
PALLD	60167-1-Ig	Mouse Mono	ELISA,WB	PRDX2	I0545-2-AP	Rabbit Poly	ELISA,WB,IHC
PARD3	I1085-1-AP	Rabbit Poly	ELISA,WB,IHC	PRDX6	I3585-1-AP	Rabbit Poly	ELISA,WB,IHC,IF
PARK7 (DJ-1)	I1681-1-AP	Rabbit Poly	ELISA,WB,IHC	PRKAG2	I2568-1-AP	Rabbit Poly	ELISA,WB,IHC
PAX6	I2323-1-AP	Rabbit Poly	ELISA,WB	PRKG2	55138-1-AP	Rabbit Poly	ELISA,WB
PC	I6588-1-AP	Rabbit Poly	ELISA,WB,IHC	PRNP	I2555-1-AP	Rabbit Poly	ELISA,WB,IHC
 <b>Recent Publications</b> Wagner AM et al., <i>Diabetologia</i> .2007 Mar;50(3)				PROM1	I9945-1-AP	Rabbit Poly	ELISA,WB
PCMT1	I0519-1-AP	Rabbit Poly	ELISA,WB	PROM1	I9946-1-AP	Rabbit Poly	ELISA,WB
PCP4	I9230-1-AP	Rabbit Poly	ELISA	PROM1	I8470-1-AP	Rabbit Poly	ELISA,WB
PDE6A	21200-1-AP	Rabbit Poly	ELISA,WB	PROM1	I8495-1-AP	Rabbit Poly	ELISA,WB
PDE6C	55183-1-AP	Rabbit Poly	ELISA,WB	PROX1	I1067-2-AP	Rabbit Poly	ELISA,WB,IHC,IF
PDIA3/Erp57	I5967-1-AP	Rabbit Poly	ELISA,WB,IF	 <b>Recent Publications</b> Charest-Marcotte A et al., <i>Genes Dev</i> .2010 Mar 15;24(6) Dufour CR et al., <i>PLoS Genet</i> .2011 Jun;7(6)			
 <b>Recent Publications</b> Hasegawa T et al., <i>Neurosci Lett</i> .2010 May 31;476(2)				PROX1	51043-1-AP	Mouse Mono	ELISA,WB,IHC
PDLIM1	I1674-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	PRPF19	I5414-1-AP	Rabbit Poly	ELISA,WB
PER2	20359-1-AP	Rabbit Poly	ELISA,WB	PRPH	I7399-1-AP	Rabbit Poly	ELISA,WB,IHC
PEX7	20614-1-AP	Rabbit Poly	ELISA,WB	PRPH2	I8109-1-AP	Rabbit Poly	ELISA,WB
PFN1	I1680-1-AP	Rabbit Poly	ELISA,WB,IHC	PRPS1	I5549-1-AP	Rabbit Poly	ELISA,WB
 <b>Recent Publications</b> Chen XY et al., <i>Chin Med J (Engl)</i> .2008 May 20;121(10)				PSEN1	I6163-1-AP	Rabbit Poly	ELISA,WB
PGRN	I0053-1-AP	Rabbit Poly	ELISA,WB,ihc	PSEN2	I6168-1-AP	Rabbit Poly	ELISA,WB
PGRN	60037-2-Ig	Mouse Mono	ELISA,WB	PSMC6	I5839-1-AP	Rabbit Poly	ELISA,WB
PGRN (I-363aa)	I8410-1-AP	Rabbit Poly	ELISA,WB,IHC	PSMD4	I4899-1-AP	Rabbit Poly	ELISA,WB,IHC
PHACTR4	I3408-1-AP	Rabbit Poly	ELISA,WB	PSME1	I0543-1-AP	Rabbit Poly	ELISA,WB
PHGDH	I4719-1-AP	Rabbit Poly	ELISA,WB,IHC	PTBP2	55186-1-AP	Rabbit Poly	ELISA,WB
PHYH	I2858-1-AP	Rabbit Poly	ELISA,WB,IHC	PTGDS	I0754-2-AP	Rabbit Poly	ELISA,WB,IHC
PHYHIP	I6984-1-AP	Rabbit Poly	ELISA,WB	PTPN5	I4515-1-AP	Rabbit Poly	ELISA,WB
PIK3R1	I1748-1-AP	Rabbit Poly	ELISA,WB,IHC	PTPRS	I3008-1-AP	Rabbit Poly	ELISA,IHC
PINI	I0495-1-AP	Rabbit Poly	ELISA,WB	PTRF	I8892-1-AP	Rabbit Poly	ELISA,WB,IHC,IF
PITRM1	I0101-2-AP	Rabbit Poly	ELISA,WB	PTTG1	I8040-1-AP	Rabbit Poly	ELISA,WB
PLP2	21482-1-AP	Rabbit Poly	ELISA,WB	QK1	I3169-1-AP	Rabbit Poly	ELISA,WB
PLS3	55216-1-AP	Rabbit Poly	ELISA,WB	RAB39B	I2162-1-AP	Rabbit Poly	ELISA,WB,IHC
PLVAP	I4452-1-AP	Rabbit Poly	ELISA,WB	RAB4A	I0347-1-AP	Rabbit Poly	ELISA,WB
PLXNB2	I0602-1-AP	Rabbit Poly	ELISA,WB	RAB5A	20228-1-AP	Rabbit Poly	ELISA,WB,IHC
PNCK	I3712-1-AP	Rabbit Poly	ELISA,WB,IHC	RAB5A	I1947-1-AP	Rabbit Poly	ELISA,WB,IHC
				RAI1	I7084-1-AP	Rabbit Poly	ELISA,WB
				RAPGEF5	I2556-1-AP	Rabbit Poly	ELISA,WB

Antibody	Cat. No	Type	Application		Antibody	Cat. No	Type	Application	
RASGRP2	I9745-1-AP	Rabbit Poly	ELISA,WB	Syn	SEMA3C	I9242-1-AP	Rabbit Poly	ELISA,WB	NDR
RCAN1	I4869-1-AP	Rabbit Poly	ELISA,WB	NDR,NST	SEMA3D	I3029-1-AP	Rabbit Poly	ELISA,WB	NDR
RCAN2	I2900-1-AP	Rabbit Poly	ELISA,WB,IHC	NDR	SEMG1	I5916-1-AP	Rabbit Poly	ELISA,WB,IHC	Chc
 <b>Recent Publications</b> ★					SERPINE2	I1303-1-AP	Rabbit Poly	ELISA,WB,IHC	NDR
Keller RL et al, <i>Vet Ophthalmol</i> .2006 May-Jun;9(3) Kicic A et al, <i>J Neurosci</i> .2003 Aug 27;23(21)					SERPINF2	I3228-1-AP	Rabbit Poly	ELISA,WB	NDR
RCVRN	I0073-1-AP	Rabbit Poly	ELISA,WB,IF	NDR	SF4	I5614-1-AP	Rabbit Poly	ELISA,WB	Syn
RDH10	I4644-1-AP	Rabbit Poly	ELISA,WB,IHC	NDR	SFN	I0622-1-AP	Rabbit Poly	ELISA,WB	NST,Syn
 <b>Recent Publications</b> ★					SGCA	I3222-1-AP	Rabbit Poly	ELISA,WB	MD,Mac
Malagelada C et al, <i>J Neurosci</i> . 2011 Mar 23(9)3186-96 Murakami T et al, <i>Biochem Biophys Res Commun</i> .2011 Feb 25405(4)615- 9					SGCB	I1936-1-AP	Rabbit Poly	ELISA,WB	Mac
REDD1	I0638-1-AP	Rabbit Poly	ELISA,WB,IHC	NDR	SGCE	I2407-1-AP	Rabbit Poly	ELISA,WB	TS
REPS2	20699-1-AP	Rabbit Poly	ELISA,WB	Syn	SHANK1	55059-1-AP	Rabbit Poly	ELISA,WB	Syn
RGMA	I2387-1-AP	Rabbit Poly	ELISA,WB	NDR	SHC3	I2436-1-AP	Rabbit Poly	ELISA,WB,IHC	NST
RGS4	I4530-1-AP	Rabbit Poly	ELISA,WB,IHC	AD	SHH	20697-1-AP	Rabbit Poly	ELISA,WB	Chc
RIMS2	20093-1-AP	Rabbit Poly	ELISA,WB	Syn	SIPI	21672-1-AP	Rabbit Poly	ELISA,WB	NST,SHS
RIMS3	I5088-1-AP	Rabbit Poly	ELISA,WB	Syn	SIRPA	I4482-1-AP	Rabbit Poly	ELISA,WB	NST,Syn
RIMS4	20091-1-AP	Rabbit Poly	ELISA,WB	Syn	SLC16A2	20676-1-AP	Rabbit Poly	ELISA,WB	CP
RINI	I6388-1-AP	Rabbit Poly	ELISA,WB	NST	SLC18A1	20340-1-AP	Rabbit Poly	ELISA,WB,IHC	Neu
ROBO1	20219-1-AP	Rabbit Poly	ELISA,WB	NDR	SLC18A2	20873-1-AP	Rabbit Poly	ELISA,WB	Neu
ROBO3	I1982-1-AP	Rabbit Poly	ELISA,WB,IHC	CP,NDR	SLC24A6	21430-1-AP	Rabbit Poly	ELISA,WB	APP
ROBO3	20220-1-AP	Rabbit Poly	ELISA,WB	CP,NDR	 <b>Recent Publications</b> ★				
RORA	I0616-1-AP	Rabbit Poly	ELISA,WB	NST	Fukunaka A et al, <i>J Biol Chem</i> .2011 May 6;286(18)				
RORB	I7635-1-AP	Rabbit Poly	ELISA,WB	NDR,NST	SLC30A6	I3526-1-AP	Rabbit Poly	ELISA,WB	AD
RORC	I3205-1-AP	Rabbit Poly	ELISA,WB	NST	SLIT2	20217-1-AP	Rabbit Poly	ELISA,WB	NST
RP2	I4151-1-AP	Rabbit Poly	ELISA,WB	APP	SLIT3	20218-1-AP	Rabbit Poly	ELISA,WB	Neu
RPGRIP1	I3214-1-AP	Rabbit Poly	ELISA,WB	APP	SLITRK4	I3835-1-AP	Rabbit Poly	ELISA,WB	NDR
RPGRIP1L	55160-1-AP	Rabbit Poly	ELISA,WB	VB	SLU7	I2050-1-AP	Rabbit Poly	ELISA,WB,IHC	Syn
RPH3A	I1396-1-AP	Rabbit Poly	ELISA,WB	Syn	SMAD4	I0231-1-AP	Rabbit Poly	ELISA,WB	MD
RPS6KB1	I4485-1-AP	Rabbit Poly	ELISA,WB,IHC	AD	SMAD4	60182-1-Ig	Mouse Mono	ELISA,WB	MD
RTN4	I0740-1-AP	Rabbit Poly	ELISA,WB,IHC	NDR	SMAD4 (peptide Ag)	51069-2-AP	Rabbit Poly	ELISA,WB,IHC	MD
RUSC1	I4434-1-AP	Rabbit Poly	ELISA,WB,IHC	NDR	SMC3	I4185-1-AP	Rabbit Poly	ELISA,WB	ID
RYR2	I9765-1-AP	Rabbit Poly	ELISA,WB	Mac	SMN2	I1708-1-AP	Rabbit Poly	ELISA,WB,IHC	Mac,NST,SHS
 <b>Recent Publications</b> ★					SMN2	20451-1-AP	Rabbit Poly	ELISA,WB,IHC	Mac,NST,SHS
Hao J et al, <i>Mol Cell Biochem</i> .2011 Aug 23 Gorsler T et al, <i>BMC Cell Biol</i> .2010 Dec 17;11(1)					SMN2	60154-1-Ig	Mouse Mono	ELISA,WB,IHC	Mac,NST,SHS
S100A11	I0237-1-AP	Rabbit Poly	ELISA,WB	Chc	SMN2	60154-2-Ig	Mouse Mono	ELISA,WB	Mac,NST,SHS
S100B	I5146-1-AP	Rabbit Poly	ELISA,WB,IHC	AD	SMNDC1	I2178-1-AP	Rabbit Poly	ELISA,WB,IHC	NST
SAM68 (KHDRBS1)	I0222-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	SHS	SMOX	I5052-1-AP	Rabbit Poly	ELISA,WB,IHC	Chc
 <b>Recent Publications</b> ★					SNAI2	I2129-1-AP	Rabbit Poly	ELISA,WB	NDR,NSC
Thiele H. et al, <i>Hum Mutat</i> , 2010 Nov31(11)E1836-50 Gi Rice et al., <i>Nat Genet</i> , 2009 Jul41(7)829-32					SNAP23	I0825-1-AP	Rabbit Poly	ELISA,WB,IHC	AD,HD,Neu,Syn,Sys
SAMHDI	I2586-1-AP	Rabbit Poly	ELISA,WB,IHC	CP	SNAP25	I0007-1-AP	Rabbit Poly	ELISA,WB	AD,HD,Neu,Syn,Sys
SCGN	I4919-1-AP	Rabbit Poly	ELISA,WB	NDR	SNAP25	I4903-1-AP	Rabbit Poly	ELISA,WB	AD,HD,Neu,Syn,Sys
SCN1B	I1484-1-AP	Rabbit Poly	ELISA,IHC	APP,EP	SNAP25	60159-1-Ig	Mouse Mono	ELISA,WB	Neu,Sys
SCN9A	20257-1-AP	Rabbit Poly	ELISA,WB	APP	 <b>Recent Publications</b> ★				
SCO2	21223-1-AP	Rabbit Poly	ELISA,WB	NDR	Cullinane AR et al, <i>Am J Hum Genet</i> .2011 Jun 10;88(6)				
SDCI	60185-1-Ig	Mouse Mono	ELISA,WB	NDR,Syn	SNAPIN	I0055-1-AP	Rabbit Poly	ELISA,WB,IF	Syn
SDCI	I0593-1-AP	Rabbit Poly	ELISA,WB,IHC	MS	 <b>Recent Publications</b> ★				
SDCI,CD138	I0593-1-AP	Rabbit Poly	ELISA,IHC	MS	Ying Z et al, <i>J Neural Transm</i> .2011 Feb 20				
SDCI,CD138	60185-1-Ig	Mouse Mono	ELISA,WB	NDR	SNCA (synuclein a)	I0842-1-AP	Rabbit Poly	ELISA,WB,IHC	AD,DLB,PD



Antibody	Cat. No	Type	Application		Antibody	Cat. No	Type	Application	
SNCB (synuclein b)	I0498-1-AP	Rabbit Poly	ELISA,WB,IHC	AD PD	SYN	I7785-1-AP	Rabbit Poly	ELISA,WB,IHC	Syn
SNIP1	I4950-1-AP	Rabbit Poly	ELISA,WB	NDR	SYT1	I4511-1-AP	Rabbit Poly	ELISA,WB,IHC	Syn
SNRPD2	I4789-1-AP	Rabbit Poly	ELISA,WB	Syn	SYT11	I2031-1-AP	Rabbit Poly	ELISA,WB	Syn
SNRPE	20407-1-AP	Rabbit Poly	ELISA,WB,IHC	Syn	SYT12	55015-1-AP	Rabbit Poly	ELISA,WB	Syn
 <b>Recent Publications</b> Miyayama T et al., <i>Toxicol Appl Pharmacol</i> .2009 Jun 1;237(2)				★	SYT4	20472-1-AP	Rabbit Poly	ELISA,WB	Syn
SOD1	I0269-1-AP	Rabbit Poly	ELISA,WB,IHC	ALS	 <b>Recent Publications</b> Kurihara N et al., <i>Cell Metab et al.</i> , 2011 Jan 513(1)23-34 Guelman S et al., <i>Mol Cell Biol</i> .2009 Mar29(5)1176-88				★
SORT1	I2369-1-AP	Rabbit Poly	ELISA,WB,IHC	NDR	TAFI2	I2353-1-AP	Rabbit Poly	ELISA,WB	ITD
SOX10	I0422-1-AP	Rabbit Poly	ELISA,WB,IHC	NSC	TAGLN3	I2246-1-AP	Rabbit Poly	ELISA,WB,IHC	NDR
SOX2	I1064-1-AP	Rabbit Poly	ELISA,WB	NDR NSC NST	TARDBP	I8280-1-AP	Rabbit Poly	ELISA,WB,IHC	AD ALS DLB ITD
SOX2	20118-1-AP	Rabbit Poly	ELISA,WB	NDR NSC NST	 <b>Recent Publications</b> Suzuki S et al., <i>Biochem Biophys Res Commun</i> .2011 Apr 21 Igaz LM et al., <i>J Clin Invest</i> .2011 Feb 1;121(2)				★
SOX6	I4010-1-AP	Rabbit Poly	ELISA,WB	NST	TARDBP	60019-1-Ig	Mouse Mono	ELISA,WB,IHC	AD ALS DLB ITD
SOX8	20627-1-AP	Rabbit Poly	ELISA,WB	NST	 <b>Recent Publications</b> EB Lee et al., <i>Acta Neuropathol</i> .2008 Mar;115(3)				★
SPATA13	21400-1-AP	Rabbit Poly	ELISA,WB	Neu	TARDBP	60019-2-Ig	Mouse Mono	ELISA,WB,IHC	AD ALS DLB ITD
SPOCK1	I2512-1-AP	Rabbit Poly	ELISA,WB	NDR	 <b>Recent Publications</b> Geser F et al., <i>Acta Neuropathol</i> .2011 Apr;121(4) Meyerowitz J et al., <i>Mol Neurodegener</i> .2011;6 Bigio EH et al., <i>Acta Neuropathol</i> .2010 Jul;120(1) Rollinson S et al., <i>Neurobiol Aging</i> .2009 Apr;30(4)				★
SPOCK2	I1725-1-AP	Rabbit Poly	ELISA,WB	NDR	TARDBP(N-term-a260)	I0782-2-AP	Rabbit Poly	ELISA,WB,IHC,IF	AD ALS DLB ITD
SPRY2	I1383-1-AP	Rabbit Poly	ELISA,WB,IHC	NST	 <b>Recent Publications</b> Tremblay C et al., <i>J Neuropathol Exp Neurol</i> .2011 Sep;70(9) Suzuki H et al., <i>J Biol Chem</i> .2011 Apr 15;286(15)				★
SQSTM1	I8420-1-AP	Rabbit Poly	ELISA,WB,IF	ALS	TARDBP(N-term-aal154)	I2892-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	AD ALS DLB ITD
SRGAP3	20224-1-AP	Rabbit Poly	ELISA,WB,IHC	NST	TBCB	I5782-1-AP	Rabbit Poly	ELISA,WB	NDR
 <b>Recent Publications</b> Miljkovic-Licina M et al., <i>FASEB J</i> .2009 Dec;23(12) Royer-Zemmour B et al., <i>Hum Mol Genet</i> .2008 Dec 1;17(23)				★	TBR1	20932-1-AP	Rabbit Poly	ELISA,WB	NST
SRPX2	I1845-1-AP	Rabbit Poly	ELISA,WB	NDR	TF	I7435-1-AP	Rabbit Poly	ELISA,WB	AD
STAC	I1480-1-AP	Rabbit Poly	ELISA,WB	NST	TFCP2	I5203-1-AP	Rabbit Poly	ELISA,WB	AD
STAU1	I4225-1-AP	Rabbit Poly	ELISA,WB	NDR	TFPI1	I4436-1-AP	Rabbit Poly	ELISA,WB	Syn
 <b>Recent Publications</b> Gruszczynska-Biegala J et al., <i>PLoS One</i> .2011 6(4)e19285 Hong JH et al., <i>Traffic</i> , 2011 Feb12(2)232-45				★	TGFB1	I8978-1-AP	Rabbit Poly	ELISA,IHC	MD
STIMI	I1565-1-AP	Rabbit Poly	ELISA,WB,IHC	AD APP	THOP1	I1738-1-AP	Rabbit Poly	ELISA,WB,IHC	AD
 <b>Recent Publications</b> Zhang Y et al., <i>BMB Rep</i> .2008 Nov 30;41(11)				★	THRA	I0139-1-AP	Rabbit Poly	ELISA,WB	Cnc
STMN1	I1157-1-AP	Rabbit Poly	ELISA,WB,IHC	AD	TIMM8A	I1179-1-AP	Rabbit Poly	ELISA,WB	ID MD NDR
 <b>Recent Publications</b> Heine S et al., <i>J Neurosci</i> .2011 Aug 3;31(31) Islam O et al., <i>Mol Biol Cell</i> .2009 Jan;20(1)				★	TIMP1	I0753-1-AP	Rabbit Poly	ELISA,WB,IHC	AD
STMN2	I0586-1-AP	Rabbit Poly	ELISA,WB,IHC	AD NDR	TMED10	I5199-1-AP	Rabbit Poly	ELISA,WB,IHC	AD
STMN3	I1311-1-AP	Rabbit Poly	ELISA,WB,IHC	NDR	 <b>Recent Publications</b> Condomines M et al., <i>J Immunol</i> .2009 Jul 15;183(2)				★
STX12	I4259-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	Syn	TMEFF2	I1928-1-AP	Rabbit Poly	ELISA,WB	AD
STX3	I5556-1-AP	Rabbit Poly	ELISA,WB	Syn	 <b>Recent Publications</b> Garcia-Gonzalo FR et al., <i>Nat Genet</i> .2011 Jul 3				★
STX8	I2206-1-AP	Rabbit Poly	ELISA,WB	AD	TMEM67	I3975-1-AP	Rabbit Poly	ELISA,IF	ID
STXBP1	20562-1-AP	Rabbit Poly	ELISA,WB	ID Syn Syn	TNFAIP1	I0096-1-AP	Rabbit Poly	ELISA,WB	AD
STXBP1	I1459-1-AP	Rabbit Poly	ELISA,WB	ID Syn Syn	 <b>Recent Publications</b> Zhang J et al., <i>Int J Cancer</i> .2010 May 1;126(9)				★
STXBP1(C-term-350aa)	I1459-1-AP	Rabbit Poly	ELISA,WB	ID Syn Syn	TNFSF10	I0399-1-AP	Rabbit Poly	ELISA,WB	AD Cnc
STXBP3	I3764-1-AP	Rabbit Poly	ELISA,WB,IHC	Syn	TNFSF10	I7235-1-AP	Rabbit Poly	ELISA,WB	AD Cnc
STXBP6	I0976-4-AP	Rabbit Poly	ELISA,WB,IHC	AD					
SUFU	I0836-1-AP	Rabbit Poly	ELISA,IHC	Cnc					
SV2C	21271-1-AP	Rabbit Poly	ELISA,WB	Syn					
SYNGAP1	I9739-1-AP	Rabbit Poly	ELISA,WB	ID AD					
SYNGR4	21751-1-AP	Rabbit Poly	ELISA,WB	Neu					
SYNPO	21064-1-AP	Rabbit Poly	ELISA,WB	Syn					

TORIA ZNRF2

Antibody	Cat. No	Type	Application		Antibody	Cat. No	Type	Application	
TORIA	I0296-1-AP	Rabbit Poly	ELISA,WB,IHC		VAMP3	I0702-1-AP	Rabbit Poly	ELISA,WB	
	<b>Recent Publications</b> Chen W et al., <i>Biochem Pharmacol</i> .2010 Jul 15;80(2) Zhang J et al., <i>Mol Cancer</i> .2010;9				VANGLI	I4696-1-AP	Rabbit Poly	ELISA,WB	
TP53	I0442-1-AP	Rabbit Poly	ELISA,WB			<b>Recent Publications</b> McCray BA et al., <i>Hum Mol Genet</i> .2010 Mar 15;19(6)2010;1519(6):1033-47			
TPPI	I2479-1-AP	Rabbit Poly	ELISA,WB,IHC		VAPB	I4477-1-AP	Rabbit Poly	ELISA,WB,IHC,IF	
	<b>Recent Publications</b> Westlake CJ et al., <i>Proc Natl Acad Sci U S A</i> .2011 Feb 15;108(7)				VAXI	I8090-1-AP	Rabbit Poly	ELISA,WB	
TRAPPC9	I6014-1-AP	Rabbit Poly	ELISA,WB,IHC		VCAMI	I1444-1-AP	Rabbit Poly	ELISA,WB	
	<b>Recent Publications</b> E Kudryashova et al., <i>Hum Mol Genet</i> 2009 Apr 118(7)1353-67				VCP	I0736-1-AP	Rabbit Poly	ELISA,WB,IHC	
TRIM32	I0326-1-AP	Rabbit Poly	ELISA,WB,IHC		VDR	I4526-1-AP	Rabbit Poly	ELISA,WB	
TRPC4	21349-1-AP	Rabbit Poly	ELISA,WB		VDR	60116-1-Ig	Mouse Mono	ELISA,WB	
TRPC6	I8236-1-AP	Rabbit Poly	ELISA,WB		VDR	60116-2-Ig	Mouse Mono	ELISA,WB	
	<b>Recent Publications</b> Li L et al., <i>Mol Cell Biochem</i> .2010 Sep;342(1-2)				VEGFA	I9003-1-AP	Rabbit Poly	ELISA,WB,IHC	
TSHR	I4450-1-AP	Rabbit Poly	ELISA,WB			<b>Recent Publications</b> Zhao XY et al., <i>Carcinogenesis</i> .2010 Aug;31(8)			
TSPAN7	I8695-1-AP	Rabbit Poly	ELISA,WB		VIM	I0366-1-AP	Rabbit Poly	ELISA,WB,IHC	
	<b>Recent Publications</b> Kido T et al., <i>PLoS One</i> .2011;6(7) Eylar CE et al., <i>Cell</i> .2011 Jul 8;146(1)				VLDLR	I9493-1-AP	Rabbit Poly	ELISA,WB	
TSPYL2	I2087-2-AP	Rabbit Poly	ELISA,WB,IHC,IF		VPS26A	I2804-1-AP	Rabbit Poly	ELISA,WB,IHC	
TTR	I1891-1-AP	Rabbit Poly	ELISA,WB,IHC		VPS4I	I3869-1-AP	Rabbit Poly	ELISA,WB	
	<b>Recent Publications</b> MacFarlane LA et al., <i>Mol Endocrinol</i> .2010 Apr;24(4) MacFarlane LA et al., <i>Mol Carcinog</i> .2010 Dec;49(12)				VSNLI	I3919-1-AP	Rabbit Poly	ELISA,WB	
TUBA1B	I1224-1-AP	Rabbit Poly	ELISA,WB,IHC		WDR1	I3676-1-AP	Rabbit Poly	ELISA,WB,IHC	
TULP3	I3637-1-AP	Rabbit Poly	ELISA,WB,IHC		WFS1	I1558-1-AP	Rabbit Poly	ELISA,WB,IHC	
TWIST1	I8125-1-AP	Rabbit Poly	ELISA,WB		Wnt3	I7983-1-AP	Rabbit Poly	ELISA,WB	
UBB	I0201-2-AP	Rabbit Poly	ELISA,WB,IHC		WT1	I2609-1-AP	Rabbit Poly	ELISA,WB	
UBE2A	I1080-1-AP	Rabbit Poly	ELISA,WB,IHC,IF			<b>Recent Publications</b> Chen N et al., <i>Hum Pathol</i> .2009 Jul;40(7) Liu X et al., <i>J Neuropathol Exp Neurol</i> .2006 Sep;65(9)			
UBE2L3	I4415-1-AP	Rabbit Poly	ELISA,WB		XIAP	I0037-1-Ig	Rabbit Poly	ELISA,WB,IHC,IF	
Ubiquitin	I0201-2-AP	Rabbit Poly	ELISA,WB,IHC		YWHAH	I0936-1-AP	Rabbit Poly	ELISA,WB,IHC	
UCHL1	I4730-1-AP	Rabbit Poly	ELISA,WB		YWHAH	I1648-2-AP	Rabbit Poly	ELISA,WB,IHC	
UCHL3	I2384-1-AP	Rabbit Poly	ELISA,WB,IHC		YWHAH	I2381-1-AP	Rabbit Poly	ELISA,WB	
UNC13A	55053-1-AP	Rabbit Poly	ELISA,WB		YWHAQ	I4503-1-AP	Rabbit Poly	ELISA,WB	
VAMPI	I3115-1-AP	Rabbit Poly	ELISA,WB		YWHAZ	I4881-1-AP	Rabbit Poly	ELISA,WB	
					ZFYVE27	I2680-1-AP	Rabbit Poly	ELISA,WB	
					ZNF259	I5558-1-AP	Rabbit Poly	ELISA,WB	
					ZNRF2	20200-1-AP	Rabbit Poly	ELISA,WB	

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