

Validated Cell Lines and References for NucView™ 488 Caspase-3 Substrate

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Immortalized cell lines used with NucView™488 Caspase-3 Substrate

Cell line	Species	Cell type	References
293-H	Human	Embryonic kidney	Wu and MacRae 2010
293-T	Human	Embryonic kidney	Li et al. 2008
4T1	Mouse	Mammary tumor	Granot et al. 2011
67NR	Mouse	Mammary carcinoma	Cheng et al. 2009
A172	Human	Glioma	Jeong et al. 2009
A204	Human	Sarcoma	Zhu et al. 2008
B16F10	Mouse	Melanoma	Ferreira et al. 2011
BeWo	Human	Trophoblast	Angeloni et al. 2009
CCL-134	Human	IPF pulmonary fibroblast	Vuorinen et al. 2007
CCL-190	Human	Pulmonary fibroblast	Vuorinen et al. 2007
CCRF-CEM	Human	Leukemia	Dahlawi et al. 2013, Pedroza et al. 2014
FU-UR-1	Human	Renal cell carcinoma	Kobos et al. 2013
GE11	Mouse	Epithelial	Puigvert et al. 2009
H358	Human	Non-small cell lung cancer	Aronchik et al. 2014
H9c2	Rat	Cardiac myoblast	Ren et al. 2012
HaCaT	Human	Keratinocyte	Paromov et al. 2011
HCLE	Human	Corneal epithelial	Mankus et al. 2011
HCT116	Human	Colorectal carcinoma	Aftab et al. 2014
HeLa	Human	Cervical cancer	Angeloni et al. 2009; Antczak et al. 2009; Cen et al. 2008; Verma et al. 2012; Gallerne et al. 2013; Kasim et al. 2013
HepT1	Human	Hepatoblastoma	Eicher et al. 2011; Dewerth et al. 2012
HMEC	Human	Microvascular endothelial	Isherwood et al. 2011
HL-60	Human	Leukemia	Dahlawi et al. 2013
HOS	Human	Osteosarcoma	Brassesso et al. 2013
HT-1080	Human	Breast fibrosarcoma	Wang et al. 2010; Zhu et al. 2008
HUH6	Human	Hepatoblastoma	Eicher et al. 2011; Dewerth et al. 2012
Jurkat	Human	T-lymphocyte	Cen et al. 2008; Stewart et al. 2010; Li and Shively 2013
JY	Human	Lymphoblastic leukemia	Berenyi et al. 2011
K562	Human	Myelogenous leukaemia	Sztiller-Sikorska et al. 2009
LLC-PK1	Pig	Kidney epithelial	Queisser 2010
MCF-7	Human	Breast adenocarcinoma	Balijepalli et al. 2010, Renjini et al. 2014; Aghibi et al. 2014
MCF-10A	Human	Breast adenocarcinoma	Koerner et al. 2013
MDA-MB-231	Human	Breast adenocarcinoma	Balijepalli et al. 2010, Aronchik et al. 2011; Koerner et al. 2013; Aronchik et al. 2014
MDA-MB-468	Human	Breast cancer	Jangmareddy et al. 2013 (NucView & MitoView Kit)
MDCK	Canine	Kidney epithelial	Queisser 2010; Eisenhoffer et al. 2012

MES-SA	Human	Uterine sarcoma	Zhu et al. 2008
MES-SA/DX	Human	Uterine sarcoma	Zhu et al. 2008
MG-63	Human	Osteosarcoma	Brassesso et al. 2013
Min 6	Mouse	Pancreatic insulinoma	Pathak et al. 2008
MOLT-3	Human	Leukemia	Dahlawi et al. 2013
N19	Mouse	Oligodendrocyte	Paez et al. 2007, Smith et al. 2012
NRK	Rat	Kidney epithelial	Stopper et al. 2009
NRK-52E	Rat	Kidney epithelial	Katsoulis et al. 2010
PC-3	Human	Prostate cancer	Bjorkman et al. 2011; Lee et al. 2013
PC-9	Human	Non-small cell lung cancer	Dereeli-Korkut et al. 2014
PC12	Rat	Pheochromocytoma	Stopper et al. 2009
RD	Human	Rhabdomyosarcoma	Zhu et al. 2008
RINm5F	Rat	Insulinoma	Schmitt et al. 2011
Saos-2	Human	Osteosarcoma	Lanz et al. 2013
SKBR3	Human	Breast cancer	Jangamreddy et al. 2013 (NucView & MitoView Kit)
SKLMS1	Human	Leiomyosarcoma	Wang et al. 2010; Zhu et al. 2008
SMMC-7721	Human	Hepatocarcinoma	Zhou et al. 2014
STHdh	Mouse	Striatal cells	Lu et al. 2013
SW684	Human	Fibrosarcoma	Zhu et al. 2008
SW872	Human	Liposarcoma	Zhu et al. 2008
THP-1	Human	Monocyte	Cestari et al. 2012, Dahlawi et al. 2013
TK6	Human	Splenic lymphoblast	Stopper et al. 2009
U2OS	Human	Osteosarcoma	Benetti and Roizman 2007; Klotz et al. 2012; Lanz et al. 2013
U251	Human	Glioblastoma	Overmeyer et al. 2008
U373 MG	Human	Glioblastoma	Jones and Howl 2011
U937	Human	Lymphoma	Wang et al. 2013
WEHI 7.2	Mouse	Lymphoid	Monaco et al. 2011

Primary cell types used with NucView™488 Caspase-3 Substrate

Cell type	Species	References
Adipose mesenchymal stem cells	Human	Levy et al. 2014
Alveolar epithelial cells	Mouse	Standiford et al. 2012
Cortical neurons	Rat	Kamynina et al. 2013
Dendritic cells	Mouse	Brodsky and Medzhitov 2008
Embryonic fibroblast (MEF)	Mouse	Chen et al. 2010; Handa et al. 2011
Embryo tailbud	Chicken	Olivera-Martinez et al. 2012
Gingival fibroblasts	Human	Tanne et al. 2013
Glia	Rat	Kamynina et al. 2013
Hemocytes	Silkworm (<i>Bombyx mori</i>)	Ishii et al. 2012
Hepatocytes	Rat	Zhang et al. 2011
Hippocampal neurons	Rat	Volosin et al. 2008, Lefort et al. 2012; Kamynina et al. 2013
Idiopathic pulmonary fibrosis fibroblasts	Human	Vuorinen et al. 2007
Immature B cells	Mouse	Claudio et al. 2009

Kidney epithelial cells	Mouse	Leuenroth et al. 2007; Schmid et al. 2008
Lung microvascular endothelial cells	Human	Mackay et al. 2010
Macrophages	Mouse	Brodsky and Medzhitov 2008
Mammary epithelial cells (3-D cultures)	Mouse	Jechlinger et al. 2009
Neutrophils	Human	Majewska et al. 2012
SVZ neural progenitor cells	Rat	Teng et al. 2008
Oligodendrocytes	Mouse	Paez et al. 2009; Guardia Clausi et al. 2012
Oocytes	Bovine, mouse	Kujjo et al. 2012
Pancreatic acinar cells	Mouse	Adhikari et al. 2008
Pancreatic beta cells	Rat	Dufer et al. 2010; Schmitt et al. 2011
Pancreatic islet cells	Mouse	Gier et al. 2009
Peritoneal macrophages	Mouse	Yancey et al. 2010, Hanley et al. 2012
Pollen tubes	Field poppy (<i>Papaver rhoeas</i>)	Bosch and Franklin-Tong 2007
Retinal pigmented epithelial cells	Human, mouse	Yang et al. 2009; Yang et al. 2011
Skin fibroblasts	Sand cat (<i>Felis margarita</i>)	Gomez et al. 2008
Stem cells	Human	Choo and Fong 2013
Thymocytes	Mouse	Tribulatti et al. 2007
T-lymphocytes	Human	Valente et al. 2014
Umbilical vein endothelial cells	Human	Geng et al. 2009
Vascular endothelial cells	Rat	Merlet et al. 2013

NucView™488 Caspase-3 Substrate References

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NucView™ 488 in flow cytometry

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