Protein oxidation can be a critical indicator of oxidative stress, which may be involved in the development of various diseases. To accurately assess oxidative stress, it is essential to consider not only the measurement of ROS and oxidative damage but also antioxidant activity. Recently, protein oxidation markers have received increased attention due to their potential in reflecting the oxidative status of cells and tissues.

### DNA oxidation
- **S-Adenosyl Homocysteine (SAH) ELISA Kit**
- **NADH Oxidase ELISA Kit**

### Protein oxidation
- **Anti Thymidine Glycol (TG) monoclonal antibody**
- **Anti 8-OHdG monoclonal antibody**
- **Anti 8-OHdG Check ELISA Kit**
- **Anti 8-OHdG monoclonal antibody (1F83)**
- **Anti Acrolein (ACR) monoclonal antibody**
- **Anti MDA monoclonal antibody (1F83)**
- **Anti 4-HNE monoclonal antibody (HNEJ2)**

### Lipid oxidation
- **Dityrosine (DT) ELISA Kit**

### Useful for foods, beverages, and serum
- The PAO Kit can detect both hydrophilic antioxidants such as Vitamin C and phenolic compounds, and hydrophobic antioxidants such as Vitamin E.
- The dityrosine ELISA is suitable for urine samples.

### Measurement of ROS and oxidative damage
- The test kit offers a fast (5 min), easy, and convenient method to measure the antioxidant capacity in food, beverages, and biological samples.

### Application to foods, beverages, and serum
- Useful for foods, beverages, and serum.

### Assay time and measuring range
- Measuring range: 0.5 - 200 ng/mL
- Assay time: approx. 3.5 hours.

### Potential Antioxidant (PAO) Kit
- New biomarker for early stage of lipid transportation.

### Anti Dibromo Tyrosine monoclonal antibody
- Description: Cat No. Size Measuring Range Sample
- NNS-MDT-020P-EX 20 μg 1C3 Mouse IHC / WB

### Anti Dibromo Tyrosine (DT) monoclonal antibody
- Description: Cat No. Size Measuring Range
- NNS-KDT-010E-EX 96 well 0.3 - 10 μmol/L urine

### Anti Dibromo Tyrosine (DT) monoclonal antibody
- Description: Cat No. Size Measuring Range
- NNS-DT-020P-EX 20 μg 0.125 - 10 ng/mL

### Anti DiBrY monoclonal antibody
- Description: Cat No. Size Measuring Range
- NNS-DT-020P-EX 20 μg 0.125 - 10 ng/mL

### Anti DiBrY monoclonal antibody
- Description: Cat No. Size Measuring Range
- NNS-DT-020P-EX 20 μg 0.5 - 200 ng/mL

### Anti DiBrY monoclonal antibody
- Description: Cat No. Size Measuring Range
- NNS-DT-020P-EX 20 μg 0.125 - 10 ng/mL

### Anti DiBrY monoclonal antibody
- Description: Cat No. Size Measuring Range
- NNS-DT-020P-EX 20 μg 0.125 - 10 ng/mL

### Related Products
- **Related Products**

### Significance of antioxidants
- For the accurate assessment of oxidative stress, it may be essential to consider not only the measurement of ROS and oxidative damage, but also antioxidant activity. Recently, protein oxidation markers in foods and beverages have received increased attention due to their potential in reflecting the oxidative status of cells and tissues.

### Test Kit for Total Potential Antioxidant (PAO)
- **Test Kit for Total Potential Antioxidant (PAO)**

### Anti Dibromo Tyrosine monoclonal antibody
- A new biomarker of protein oxidation due to granulocyte activity
- Neurophilic and eosinophilic play important roles in the defense against microbial infections. Myeloperoxidase and eosinophil peroxidase present in these cells type are known to cause the formation of hypochlorous acid (HOCl) and hypobromous acid (HOBr). These reactive intermediates react with proteins and are known to form tyrosine halogenations (Tyr). Using specific antibodies against these tyrosine halogenations could be useful in the diagnosis of diseases related to oxidative stress.

### Anti Dibromo Tyrosine monoclonal antibody
- **Anti Dibromo Tyrosine monoclonal antibody**

### Dityrosine ELISA – suitable for urine samples
- Monitoring dityrosine levels in urine samples is a non-invasive route to assess oxidative stress in vivo. This convenient ELISA kit has been developed to give accurate results with urine samples.

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### Measurement Kit / Antibody / Anti Oxidant Assay Kit
- **Measurement Kit / Antibody / Anti Oxidant Assay Kit**

### High Sensitive 8-OHdG Check ELISA Kit
- **Highly Sensitive 8-OHdG Check ELISA Kit**

### Test Kit for Total Potential Antioxidant (PAO)
- **Test Kit for Total Potential Antioxidant (PAO)**

### Anti Oxidant Assay Kit
- **Anti Oxidant Assay Kit**

### Anti Dibromo Tyrosine monoclonal antibody
- A new biomarker of protein oxidation due to granulocyte activity

### Protein Oxidation Markers
- **Protein Oxidation Markers**

### Positive Controls
- **Positive Controls**

### New biomarker of protein oxidation due to granulocyte activity
- Neurophilic and eosinophilic play important roles in the defense against microbial infections. Myeloperoxidase and eosinophil peroxidase present in these cells type are known to cause the formation of hypochlorous acid (HOCl) and hypobromous acid (HOBr). These reactive intermediates react with proteins and are known to form tyrosine halogenations (Tyr). Using specific antibodies against these tyrosine halogenations could be useful in the diagnosis of diseases related to oxidative stress.
Oxidative Stress Markers

**DNA Oxidation Markers**

- **Anti Thymidine Glycol (TG) monoclonal antibody**
  - Highly specific for TG oxidation.

**Lipid Oxidation Markers**

- **Hexanoyl-Lysine adduct (HEL) ELISA Kit**
  - The cross-reactivity of this assay kit has been characterized against 19 HEL analogues.

- **Anti Acrolein (ACR) monoclonal antibody**
  - Recommended for immunohistochemistry and western blotting.

- **Anti MDA monoclonal antibody**
  - Not applicable to paraffin embedded tissues.

- **Anti 4-HNE monoclonal antibody**
  - Highly specific for 4-HNE.

**Biomarkers**

- **8-OHdG Check Trial Package**
  - Highly sensitive for oxidative DNA damage.

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