

**PRDX3 / Peroxiredoxin 3 Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS15171****Specification**

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**PRDX3 / Peroxiredoxin 3 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P30048</a> |
| Reactivity        | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Calculated MW     | 28kDa KDa              |

**PRDX3 / Peroxiredoxin 3 Antibody - Additional Information****Gene ID** 10935**Other Names**

Thioredoxin-dependent peroxide reductase, mitochondrial, 1.11.1.15, Antioxidant protein 1, AOP-1, HBC189, Peroxiredoxin III, Prx-III, Peroxiredoxin-3, Protein MER5 homolog, PRDX3, AOP1

**Reconstitution & Storage**

Long term: -20°C; Short term: -20°C

**Precautions**

PRDX3 / Peroxiredoxin 3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**PRDX3 / Peroxiredoxin 3 Antibody - Protein Information****Name** PRDX3**Synonyms** AOP1**Function**

Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides (PubMed: [7733872](http://www.uniprot.org/citations/7733872), PubMed: [17707404](http://www.uniprot.org/citations/17707404), PubMed: [29438714](http://www.uniprot.org/citations/29438714), PubMed: [33889951](http://www.uniprot.org/citations/33889951)). Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol (PubMed: [12492477](http://www.uniprot.org/citations/12492477)). Required for the maintenance of physical strength (By similarity).

**Cellular Location**

Mitochondrion. Cytoplasm. Early endosome. Note=Localizes to early endosomes in a

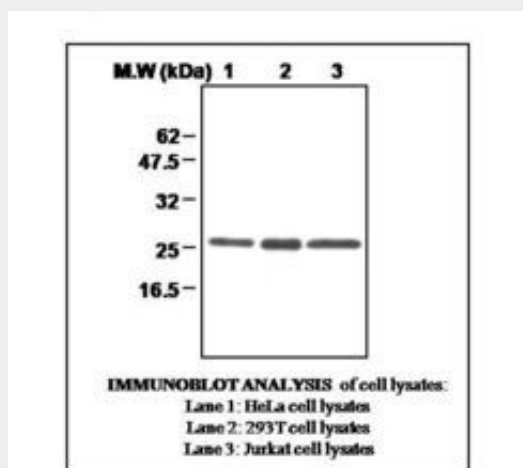
RPS6KC1-dependent manner.

### **PRDX3 / Peroxiredoxin 3 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **PRDX3 / Peroxiredoxin 3 Antibody - Images**



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### **PRDX3 / Peroxiredoxin 3 Antibody - Background**

Involved in redox regulation of the cell. Protects radical-sensitive enzymes from oxidative damage by a radical-generating system. Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol.

### **PRDX3 / Peroxiredoxin 3 Antibody - References**

Tsuji K., et al. *Biochem. J.* 307:377-381(1995).  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Ebert L., et al. Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.  
Kalnine N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.  
Deloukas P., et al. *Nature* 429:375-381(2004).