

PRDX3 / Peroxiredoxin 3 Antibody (clone 12B)
Mouse Monoclonal Antibody
Catalog # ALS15169**Specification**

PRDX3 / Peroxiredoxin 3 Antibody (clone 12B) - Product Information

Application	WB
Primary Accession	P30048
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	28kDa KDa

PRDX3 / Peroxiredoxin 3 Antibody (clone 12B) - 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 (clone 12B) is for research use only and not for use in diagnostic or therapeutic procedures.

PRDX3 / Peroxiredoxin 3 Antibody (clone 12B) - 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) target="_blank">7733872, PubMed: [17707404](http://www.uniprot.org/citations/17707404) target="_blank">17707404, PubMed: [29438714](http://www.uniprot.org/citations/29438714) target="_blank">29438714, PubMed: [33889951](http://www.uniprot.org/citations/33889951) target="_blank">33889951). Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol (PubMed: [12492477](http://www.uniprot.org/citations/12492477) target="_blank">12492477). Required for the maintenance of physical strength (By similarity).

Cellular Location

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

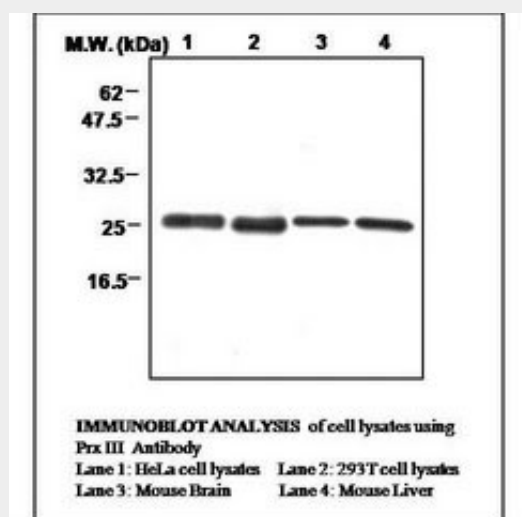
RPS6KC1-dependent manner.

PRDX3 / Peroxiredoxin 3 Antibody (clone 12B) - 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 (clone 12B) - Images



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PRDX3 / Peroxiredoxin 3 Antibody (clone 12B) - 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 (clone 12B) - 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.
Kalinine N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Deloukas P., et al. *Nature* 429:375-381(2004).