

PRDX3 / Peroxiredoxin 3 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS12486**Specification**

PRDX3 / Peroxiredoxin 3 Antibody - Product Information

Application	WB, IHC
Primary Accession	P30048
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28 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

+4°C or -20°C, Avoid repeated freezing and thawing.

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.

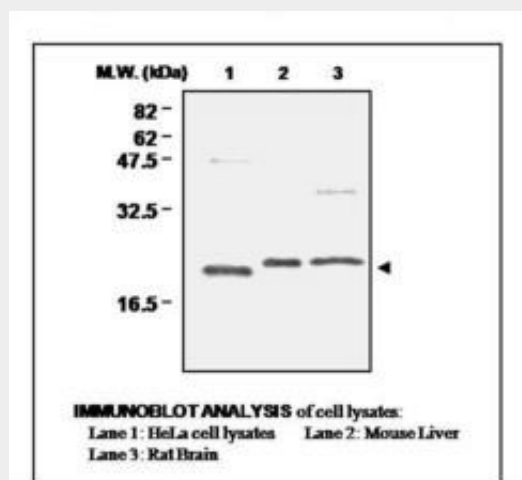
Volume
Array

PRDX3 / Peroxiredoxin 3 Antibody - Protocols

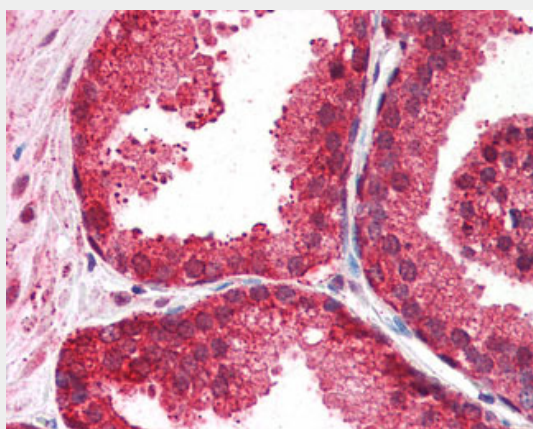
Provided below are standard protocols that you may find useful for product applications.

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

PRDX3 / Peroxiredoxin 3 Antibody - Images



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Anti-Peroxiredoxin 3 antibody IHC of human prostate.

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).