

**PRDX3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2926a****Specification**

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**PRDX3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P30048](#)**PRDX3 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 10935

**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2926a](/products/AP2926a) was selected from the N-term region of human PRDX3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PRDX3 Antibody (N-term) Blocking Peptide - 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 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PRDX3 Antibody (N-term) Blocking Peptide - Images****PRDX3 Antibody (N-term) Blocking Peptide - Background**

PRDX3 is a protein with antioxidant function and is localized in the mitochondrion. This protein is involved in redox regulation of the cell and Protects radical-sensitive enzymes from oxidative damage by a radical-generating system. It Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol.

**PRDX3 Antibody (N-term) Blocking Peptide - References**

Cox,A.G., et.al., Biochemistry 48 (27), 6495-6501 (2009)