

**PRDX3 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5331**

**Specification**

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**PRDX3 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P30048</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	H=28,26;M=28;Rat=28 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**PRDX3 Antibody (C-term) - Additional Information**

**Gene ID** 10935

**Antigen Region**  
229-262

**Other Names**

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

**Dilution**

WB~~1:1000

**Target/Specificity**

This PRDX3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 229-262 amino acids from the C-terminal region of human PRDX3.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PRDX3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PRDX3 Antibody (C-term) - 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:[17707404](http://www.uniprot.org/citations/17707404), PubMed:[29438714](http://www.uniprot.org/citations/29438714), PubMed:[33889951](http://www.uniprot.org/citations/33889951), PubMed:[7733872](http://www.uniprot.org/citations/7733872)). 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**

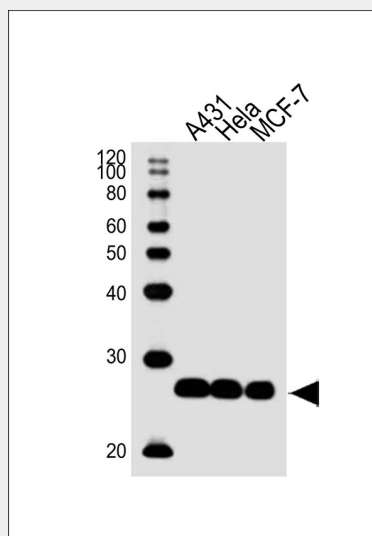
Mitochondrion. Cytoplasm. Early endosome. Note=Localizes to early endosomes in a RPS6KC1-dependent manner.

**PRDX3 Antibody (C-term) - 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 Antibody (C-term) - Images**



Western blot analysis of lysates from A431, HeLa, MCF-7 cell line (from left to right), using PRDX3 Antibody (C-term) (Cat. #AW5331). AW5331 was diluted at 1:1000 at each lane. A goat anti-rabbit

IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

### **PRDX3 Antibody (C-term) - 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 Antibody (C-term) - 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).