

**PRDX3 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2926a**

## Specification

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### PRDX3 Antibody (N-term) - Product Information

Application	<b>WB, IHC-P, FC,E</b>
Primary Accession	<a href="#">P30048</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>27693</b>
Antigen Region	<b>66-94</b>

### PRDX3 Antibody (N-term) - 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

This PRDX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-94 amino acids from the N-terminal region of human PRDX3.

#### Dilution

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

#### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### 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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### PRDX3 Antibody (N-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](#), PubMed:[29438714](#), PubMed:[33889951](#), PubMed:[7733872](#)). Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol (PubMed:[12492477](#)). Required for the maintenance of physical strength (By similarity).

## Cellular Location

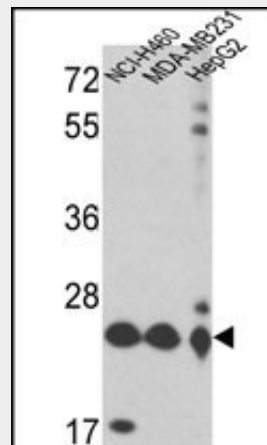
Mitochondrion. Cytoplasm. Early endosome. Note=Localizes to early endosomes in a RPS6KC1-dependent manner.

## PRDX3 Antibody (N-term) - Protocols

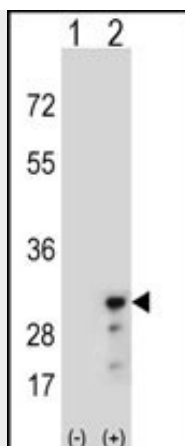
Provided below are standard protocols that you may find useful for product applications.

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

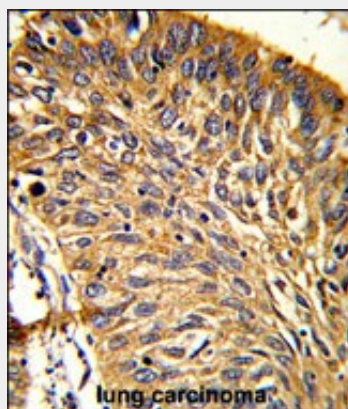
## PRDX3 Antibody (N-term) - Images



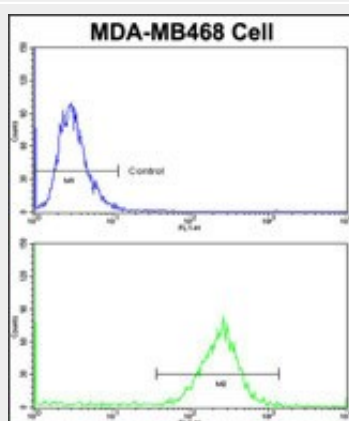
Western blot analysis of PRDX3 Antibody (N-term) (Cat. #AP2926a) in NCI-H460,MDA-MB231,HepG2 cell line lysates (35ug/lane). PRDX3 (arrow) was detected using the purified Pab.(2ug/ml)



Western blot analysis of PRDX3 (arrow) using rabbit polyclonal PRDX3 Antibody (N-term) (Cat. #AP2926a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PRDX3 gene.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with PRDX3 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of MDA-MB468 cells using PRDX3 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram) FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### PRDX3 Antibody (N-term) - 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) - References**

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