

**PRX III Polyclonal Antibody**  
Catalog # AP72056**Specification****PRX III Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P30048</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**PRX III Polyclonal Antibody - Additional Information****Gene ID** 10935**Other Names**

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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000.IHC-p:1:50-300 ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**PRX III Polyclonal 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:<a href="http://www.uniprot.org/citations/17707404" target="\_blank">17707404</a>, PubMed:<a href="http://www.uniprot.org/citations/29438714" target="\_blank">29438714</a>, PubMed:<a href="http://www.uniprot.org/citations/33889951" target="\_blank">33889951</a>, PubMed:<a href="http://www.uniprot.org/citations/7733872" target="\_blank">7733872</a>). Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol (PubMed:<a href="http://www.uniprot.org/citations/12492477" target="\_blank">12492477</a>). Required for the maintenance of physical strength (By similarity).

**Cellular Location**

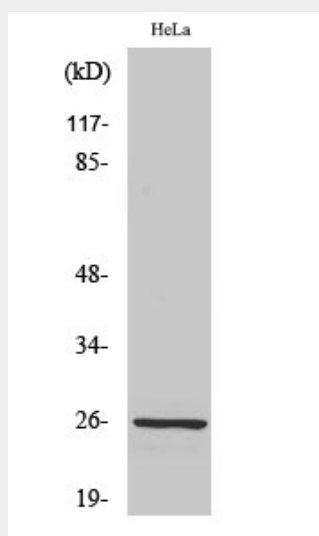
Mitochondrion. Cytoplasm. Early endosome. Note=Localizes to early endosomes in a RPS6KC1-dependent manner.

### PRX III Polyclonal 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](#)

### PRX III Polyclonal Antibody - Images



### PRX III Polyclonal Antibody - Background

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, PubMed:17707404). Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol (PubMed:12492477).