

PRX III Polyclonal Antibody
Catalog # AP72056**Specification**

PRX III Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P30048
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

DilutionWB~~Western Blot: 1/500 - 1/2000.IHC-p:1:50-300 ELISA: 1/20000. Not yet tested in other applications.
IHC-P~~N/A**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](http://www.uniprot.org/citations/17707404), PubMed:<[a href="http://www.uniprot.org/citations/29438714" target="_blank">29438714](http://www.uniprot.org/citations/29438714), PubMed:<[a href="http://www.uniprot.org/citations/33889951" target="_blank">33889951](http://www.uniprot.org/citations/33889951), PubMed:<[a href="http://www.uniprot.org/citations/7733872" target="_blank">7733872](http://www.uniprot.org/citations/7733872)). 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](http://www.uniprot.org/citations/12492477)). Required for the maintenance of physical strength (By similarity).

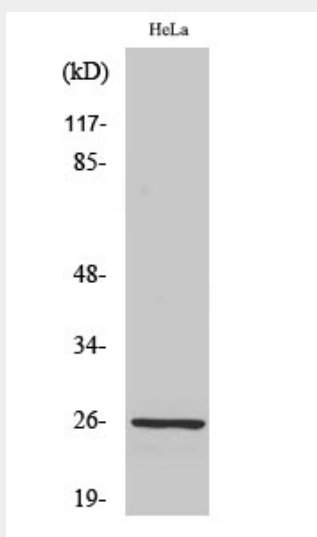
Cellular Location

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

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).