

PRDX3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20728c

Product Information

Application	WB, E
Primary Accession	P30048
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB49635
Calculated MW	27693

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 a rabbit immunized with a KLH conjugated synthetic peptide between 229-262 amino acids from the C-terminal region of human PRDX3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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.

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.

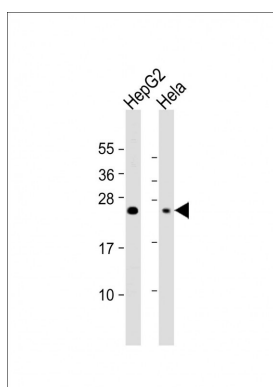
Background

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.

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).

Images



All lanes : Anti-PRDX3 Antibody (C-term) at 1:2000 dilution
Lane 1: HepG2 whole cell lysate Lane 2: HeLa whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.