

PRDX3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5331

Specification

PRDX3 Antibody (C-term) - Product Information

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

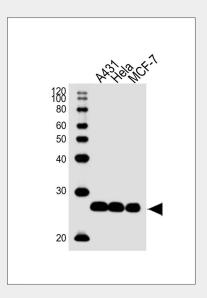
Cellular Location Mitochondrion. Cytoplasm. Early endosome. Note=Localizes to early endosomes in a RPS6KC1-dependent manner.

PRDX3 Antibody (C-term) - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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).