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PRDX3 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP20728c

Specification

PRDX3 Blocking Peptide (C-term) - Product Information

Primary Accession P30048

PRDX3 Blocking Peptide (C-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
The synthetic peptide sequence is selected from aa 229-242 of HUMAN PRDX3

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PRDX3 Blocking Peptide (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:7733872, PubMed:17707404, PubMed:29438714, PubMed:33889951). 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 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

PRDX3 Blocking Peptide (C-term) - Images

PRDX3 Blocking Peptide (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 Blocking Peptide (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).