

# 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:<a href="http://www.uniprot.org/citations/7733872" target="\_blank">7733872</a>, 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>, 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.

# 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).