

# PRDX6 Antibody (Center) Blocking peptide

Synthetic peptide Catalog # BP2927c

## **Specification**

# PRDX6 Antibody (Center) Blocking peptide - Product Information

Primary Accession P30041
Other Accession NP\_004896

# PRDX6 Antibody (Center) Blocking peptide - Additional Information

**Gene ID 9588** 

### **Other Names**

Peroxiredoxin-6, 1-Cys peroxiredoxin, 1-Cys PRX, 24 kDa protein, Acidic calcium-independent phospholipase A2, aiPLA2, 311-, Antioxidant protein 2, Liver 2D page spot 40, Non-selenium glutathione peroxidase, NSGPx, Red blood cells page spot 12, PRDX6, AOP2, KIAA0106

#### **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.

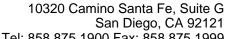
### PRDX6 Antibody (Center) Blocking peptide - Protein Information

# Name PRDX6

Synonyms AOP2, KIAA0106

#### **Function**

Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively (PubMed:<a href="http://www.uniprot.org/citations/9497358" target="\_blank">9497358</a>, PubMed:<a href="http://www.uniprot.org/citations/10893423" target="\_blank">10893423</a>). Can reduce H(2)O(2) and short chain organic, fatty acid, and phospholipid hydroperoxides (PubMed:<a href="http://www.uniprot.org/citations/10893423" target="\_blank">10893423</a>). Also has phospholipase activity, can therefore either reduce the oxidized sn-2 fatty acyl group of phospholipids (peroxidase activity) or hydrolyze the sn-2 ester bond of phospholipids (phospholipase activity) (PubMed:<a href="http://www.uniprot.org/citations/10893423" target="\_blank">10893423</a>, PubMed:<a href="http://www.uniprot.org/citations/26830860" target="\_blank">26830860</a>, PubMed:<a href="http://www.uniprot.org/citations/26830860" target="\_blank">26830860</a>). These activities are dependent on binding to phospholipids at acidic pH and to oxidized phospholipds at cytosolic pH (PubMed:<a href="http://www.uniprot.org/citations/10893423" target="\_blank">10893423</a>). Plays a role





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in cell protection against oxidative stress by detoxifying peroxides and in phospholipid homeostasis (PubMed:<a href="http://www.uniprot.org/citations/10893423" target=" blank">10893423</a>). Exhibits acyl-CoA-dependent lysophospholipid acyltransferase which mediates the conversion of lysophosphatidylcholine (1-acyl-sn-glycero-3- phosphocholine or LPC) into phosphatidylcholine (1,2-diacyl-sn-glycero- 3-phosphocholine or PC) (PubMed:<a href="http://www.uniprot.org/citations/26830860" target=" blank">26830860</a>). Shows a clear preference for LPC as the lysophospholipid and for palmitoyl CoA as the fatty acyl substrate (PubMed:<a href="http://www.uniprot.org/citations/26830860" target=" blank">26830860</a>).

### **Cellular Location**

Cytoplasm. Lysosome {ECO:0000250|UniProtKB:O35244}. Note=Also found in lung secretory organelles (lamellar bodies). {ECO:0000250|UniProtKB:O35244}

## PRDX6 Antibody (Center) Blocking peptide - Protocols

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

• Blocking Peptides

PRDX6 Antibody (Center) Blocking peptide - Images