

# Peroxiredoxin 6 Rabbit mAb

Catalog # AP77659

#### **Product Information**

**Application** WB, IF, ICC, IP

P30041 **Primary Accession** 

Reactivity Rat, Human, Mouse

Host Rabbit

Monoclonal Antibody Clonality

Isotype IgG

Conjugate Unconjugated

Immunogen A synthesized peptide derived from human PRDX6

**Purification** Affinity Chromatography

**Calculated MW** 25035

## **Additional Information**

Gene ID 9588

PRDX6 **Other Names** 

Dilution WB~~1/500-1/1000 IF~~1:50~200 ICC~~N/A IP~~N/A

Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% **Format** 

sodium azide and 50% glycerol.

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

### **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: 10893423, PubMed: 9497358). Can reduce H(2)O(2) and short chain organic, fatty acid, and phospholipid hydroperoxides (PubMed: 10893423). 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: 10893423, PubMed:26830860). These activities are dependent on binding to

phospholipids at acidic pH and to oxidized phospholipds at cytosolic pH (PubMed: 10893423). Plays a role in cell protection against oxidative stress by detoxifying peroxides and in phospholipid homeostasis (PubMed: 10893423).

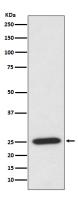
Exhibits acyl-CoA-dependent lysophospholipid acyltransferase which

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:26830860). Shows a clear preference for LPC as the lysophospholipid and for palmitoyl CoA as the fatty acyl substrate (PubMed:26830860).

#### **Cellular Location**

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

## **Images**



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