

Product Name: PRDX6 (10R16) Rabbit Monoclonal Antibody
Catalog #: AMRe16478

Summary

Production Name	PRDX6 (10R16) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	PRDX6
Alternative Names	Peroxiredoxin-6; Antioxidant protein 2; Liver 2D page spot 40; NSGPx; PRDX6; AOP2; KIAA;
Gene ID	9588.0
SwissProt ID	P30041.A synthetic peptide of human Peroxiredoxin 6

Application

Dilution Ratio	WB: 1:1000
Molecular Weight	25kDa

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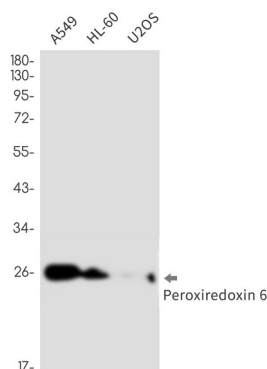


Background

Involved in redox regulation of the cell. Can reduce H_2O_2 and short chain organic, fatty acid, and phospholipid hydroperoxides. May play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury. Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively (PubMed: [9497358](http://www.uniprot.org/citations/9497358), PubMed: [10893423](http://www.uniprot.org/citations/10893423)). Can reduce H_2O_2 and short chain organic, fatty acid, and phospholipid hydroperoxides (PubMed: [10893423](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/10893423), PubMed: [26830860](http://www.uniprot.org/citations/26830860)). These activities are dependent on binding to phospholipids at acidic pH and to oxidized phospholipids at cytosolic pH (PubMed: [10893423](http://www.uniprot.org/citations/10893423)). Plays a role in cell protection against oxidative stress by detoxifying peroxides and in phospholipid homeostasis (PubMed: [10893423](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/26830860)). Shows a clear preference for LPC as the lysophospholipid and for palmitoyl CoA as the fatty acyl substrate (PubMed: [26830860](http://www.uniprot.org/citations/26830860)).

Research Area

Image Data



Western blot detection of Peroxiredoxin 6 in A549, HL-60, U2OS cell lysates using Peroxiredoxin 6 antibody (1:1000 diluted).

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Note

For research use only.