

Peroxiredoxin 6 Rabbit mAb

Catalog # AP76653

Product Information

Application	WB, IP
Primary Accession	P30041
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	25035

Additional Information

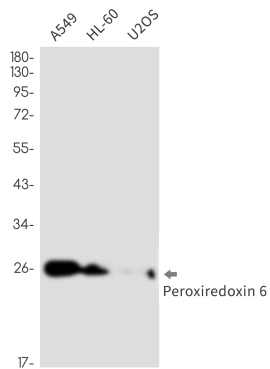
Gene ID	9588
Other Names	PRDX6
Dilution	WB~~1/500-1/1000 IP~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

Protein Information

Name	PRDX6
Synonyms	AOP2, KIAA0106
Function	<p>Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively (PubMed:10893423, PubMed:9497358). Can reduce H₂O₂ 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 phospholipids 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).</p>
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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