

PRDX6 / Peroxiredoxin 6 Antibody (clone 4A3)
Mouse Monoclonal Antibody
Catalog # ALS14439**Specification**

PRDX6 / Peroxiredoxin 6 Antibody (clone 4A3) - Product Information

Application	WB
Primary Accession	P30041
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	25kDa KDa

PRDX6 / Peroxiredoxin 6 Antibody (clone 4A3) - Additional Information**Gene ID** 9588**Other Names**

Peroxiredoxin-6, 1.11.1.15, 1-Cys peroxiredoxin, 1-Cys PRX, 24 kDa protein, Acidic calcium-independent phospholipase A2, aiPLA2, 3.1.1.-, Antioxidant protein 2, Liver 2D page spot 40, Non-selenium glutathione peroxidase, NSGPx, 1.11.1.9, Red blood cells page spot 12, PRDX6, AOP2, KIAA0106

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

PRDX6 / Peroxiredoxin 6 Antibody (clone 4A3) is for research use only and not for use in diagnostic or therapeutic procedures.

PRDX6 / Peroxiredoxin 6 Antibody (clone 4A3) - 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:9497358, PubMed:10893423). 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 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).

Cellular Location

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

Volume

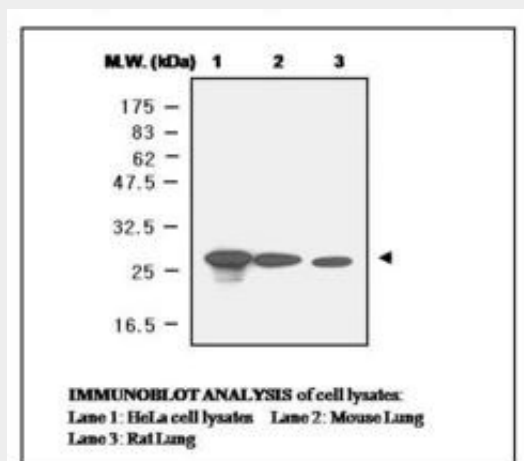
50 µl

PRDX6 / Peroxiredoxin 6 Antibody (clone 4A3) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PRDX6 / Peroxiredoxin 6 Antibody (clone 4A3) - Images



0

PRDX6 / Peroxiredoxin 6 Antibody (clone 4A3) - Background

Involved in redox regulation of the cell. Can reduce H₂O₂ 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.

PRDX6 / Peroxiredoxin 6 Antibody (clone 4A3) - References

Kim T.-S.,et al.J. Biol. Chem. 272:2542-2550(1997).
Kim T.-S.,et al.J. Biol. Chem. 272:10981-10981(1997).
Frank S.,et al.Oncogene 14:915-921(1997).
Nagase T.,et al.DNA Res. 2:37-43(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).