10320 Camino Santa Fe, Suite G
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PRDX6 / Peroxiredoxin 6 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS14260

Specification

PRDX6 / Peroxiredoxin 6 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P30041
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**25kDa KDa**

PRDX6 / Peroxiredoxin 6 Antibody - 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
May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot. Store at -20°C. Aliquots are stable for at least 12 months at -20°C

Precautions
PRDX6 / Peroxiredoxin 6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PRDX6 / Peroxiredoxin 6 Antibody - 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:<a href="http://www.uniprot.org/citations/26830860"

target="_blank">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}

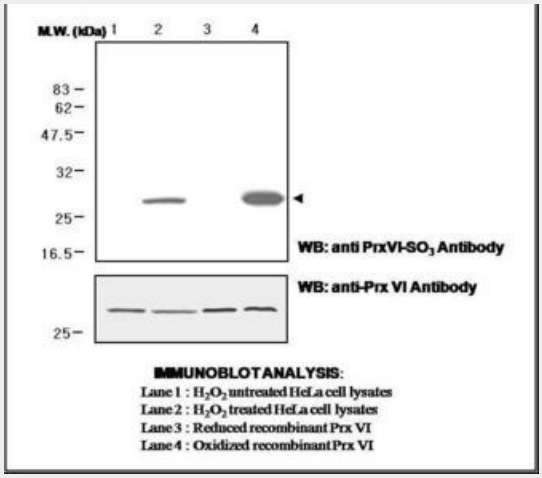
Volume
50 µl

PRDX6 / Peroxiredoxin 6 Antibody - Protocols

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

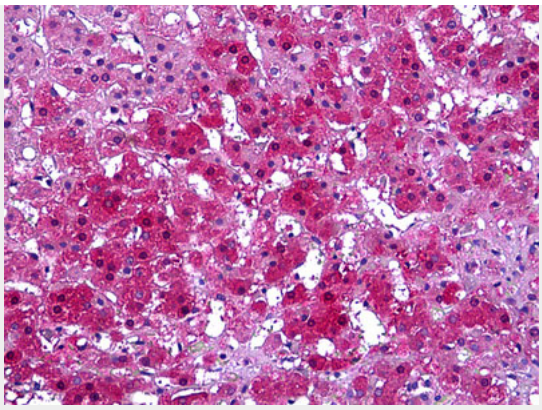
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PRDX6 / Peroxiredoxin 6 Antibody - Images

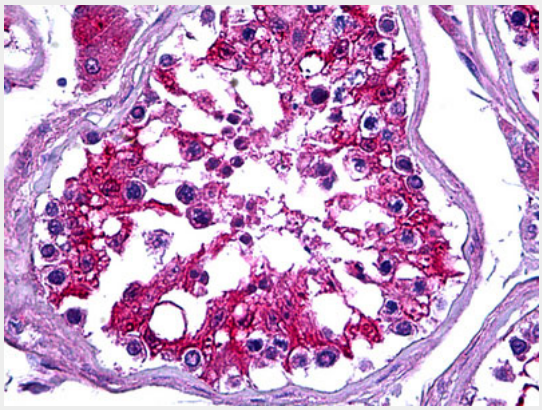


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Anti-PRDX6 / Peroxiredoxin 6 antibody IHC of human adrenal.



Anti-PRDX6 / Peroxiredoxin 6 antibody IHC of human testis.

PRDX6 / Peroxiredoxin 6 Antibody - Background

Involved in redox regulation of the cell. Can reduce H(2)O(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.

PRDX6 / Peroxiredoxin 6 Antibody - 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).