

peroxiredoxin 6 (aa170-180) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF4096a

Specification

peroxiredoxin 6 (aa170-180) Antibody (internal region) - Product Information

Application	WB
Primary Accession	P30041
Other Accession	NP_004896.1 , 9588
Reactivity	Human, Pig
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	25035

peroxiredoxin 6 (aa170-180) Antibody (internal region) - 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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

peroxiredoxin 6 (aa170-180) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

peroxiredoxin 6 (aa170-180) Antibody (internal region) - 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 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}

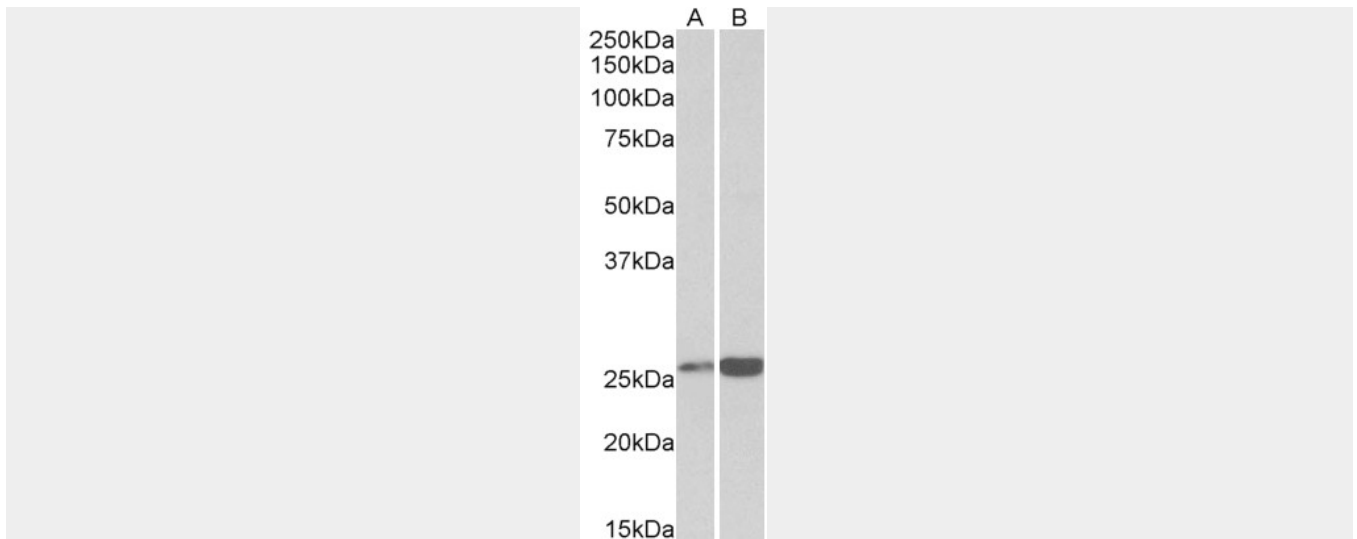
peroxiredoxin 6 (aa170-180) Antibody (internal region) - Protocols

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](#)

peroxiredoxin 6 (aa170-180) Antibody (internal region) - Images





AF4096a (0.3 $\mu\text{g/ml}$) staining of Heart (A) and Liver (B) lysates (35 μg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

peroxiredoxin 6 (aa170-180) Antibody (internal region) - References

Peroxiredoxin 6 interferes with TRAIL-induced death-inducing signaling complex formation by binding to death effector domain caspase. Choi H, Chang JW, Jung YK. Cell death and differentiation 2011 Mar 18 (3): 405-14. PMID: 20829884