Peroxiredoxin 6 (PRDX6) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Peroxiredoxin 6 (PRDX6), Polyclonal Antibody
Full Product Name	APC-Linked Polyclonal Antibody to Peroxiredoxin 6 (PRDX6)
Product Gene Name	anti-PRDX6 antibody
Product Synonym Names	Peroxiredoxin 6; 1-Cys; AOP2; NSGPx; PRX; aiPLA2; p29; Acidic calcuM-independent phospholipase A2; Antioxidant protein 2; Non-selenuM glutathione peroxidase; Red blood cells page spot 12
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid. 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	>=0.1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, -20 degree C for 12 months Stable for 12 months if correctly stored.
Matching Pairs	Antibody: PRDX6 (MBS2146909) Immunogen: PRDX6 (MBS2097674)
Matching Pairs	Unconjugated Antibody: PRDX6 (MBS2151649) APC Conjugated Antibody: PRDX6 (MBS2146909)
Molecular Weight	24,871 Da
Immunogen Sequence Positions	Met1~Pro224
3D Structure	ModBase 3D Structure for O08709
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	APC
Product Categories/Family for anti-PRDX6 antibody	Polyclonal Antibodies (Primary Abs); Primary, APC-conjugated; Enzyme & Kinase
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-PRDX6 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-PRDX6 antibody	WB: 0.5-2ug/mL IHC: 5-20ug/mL ICC: 5-20ug/mL
Related Product Information for anti-PRDX6 antibody	MBS2146909 is an antibody targeting PRDX6. Also known as APC-Linked Polyclonal Antibody to Peroxiredoxin 6 (PRDX6). Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PRDX6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDX6. It may not necessarily be applicable to this product.

NCBI GI #	6671549
NCBI GeneID	11758
NCBI Accession #	NP_031479.1
UniProt Primary Accession #	O08709
UniProt Secondary Accession #	Q91WT2; Q9QWP4; Q9QWW0
UniProt Related Accession #	O08709
GenBank Nucleotide #	NM_007453.4
NCBI Official Full Name	peroxiredoxin-6 isoform 1
NCBI Official Synonym Full Names	peroxiredoxin 6
NCBI Official Symbol	Prdx6
NCBI Official Synonym Symbols	GPx; Aop2; CP-3; Ltw4; Ltw-4; NSGPx; ORF06; Prdx5; Brp-12; Lvtw-4; aiPLA2; 1-cysPrx; AA690119; 1-Cys Prx; 9430088D19Rik
UniProt Protein Name	Peroxiredoxin-6
UniProt Synonym Protein Names	1-Cys peroxiredoxin; 1-Cys PRX; Acidic calcium-independent phospholipase A2 (EC:3.1.1.-); aiPLA2; Antioxidant protein 2; Non-selenium glutathione peroxidase (EC:1.11.1.9); NSGPx
Protein Family	Peroxiredoxin
UniProt Gene Name	Prdx6
UniProt Synonym Gene Names	Aop2; Ltw4; Prdx5; 1-Cys PRX; aiPLA2; NSGPx
NCBI Protein Information	peroxiredoxin-6
NCBI Summary for PRDX6	This gene encodes a member of the peroxiredoxin family of peroxidases. The encoded protein is a bifunctional enzyme that has glutathione peroxidase and phospholipase activities. This protein is an antioxidant that reduces peroxidized membrane phospholipids and plays an important role in phospholipid homeostasis based on its ability to generate lysophospholipid substrate for the remodeling pathway of phospholipid synthesis. Mice lacking this gene are sensitive to oxidant stress, have altered lung phospholipid metabolism and susceptible to skin tumorigenesis. Alternate splicing of this gene results in multiple transcript variants. A pseudogene of this gene is found on chromosome 4. [provided by RefSeq, Dec 2014]
UniProt Comments for PRDX6	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 ().
Research Articles on PRDX6	**1.** Prdx6 knockout males are more vulnerable to oxidative stress than WT males, resulting in impairment of sperm quality and ability to fertilize the oocyte, compatible with the subfertility phenotype observed in these knockout mice.
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