PRDX6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRDX6, Polyclonal Antibody
Full Product Name	PRDX6 Antibody, Biotin conjugated
Product Gene Name	anti-PRDX6 antibody
Product Synonym Names	Peroxiredoxin-6; 1-Cys peroxiredoxin; 1-Cys PRX; 24 kDa protein; Acidic calcium-independent phospholipase A2; PLA2; Antioxidant protein 2; Liver 2D page spot 40; Non-selenium glutathione peroxidase; NSGPx; Red blood cells page spot 12; PRDX6; AOP2; KIAA0106
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: PRDX6 (MBS7103463) Biotin Conjugated Antibody: PRDX6 (MBS7103466)
Molecular Weight	25,035 Da
OMIM	D14662 mRNA
3D Structure	ModBase 3D Structure for P30041
Immunogen	Recombinant Human Peroxiredoxin-6 protein (87-224AA)
Conjugation	Biotin
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-PRDX6 antibody	Cancer; Cardiovascular; Cell biology; Metabolism; Signal transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PRDX6 antibody	ELISA (EIA)
Related Product Information for anti-PRDX6 antibody	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.
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.
Searchable Terms for PRDX6 purchase	MBS7103466 is an antibody targeting PRDX6. Also known as PRDX6 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4758638
NCBI GeneID	9588
NCBI Accession #	NP_004896.1
UniProt Primary Accession #	P30041
UniProt Secondary Accession #	P32077; Q5TAH4; Q5ZEZ8; A8JZY7
UniProt Related Accession #	P30041
GenBank Nucleotide #	NM_004905.2
NCBI Official Full Name	peroxiredoxin-6
NCBI Official Synonym Full Names	peroxiredoxin 6
NCBI Official Symbol	PRDX6
NCBI Official Synonym Symbols	PRX; p29; AOP2; 1-Cys; NSGPx; aiPLA2; HEL-S-128m
UniProt Protein Name	Peroxiredoxin-6
UniProt Synonym Protein Names	1-Cys peroxiredoxin; 1-Cys PRX; 24 kDa protein; Acidic calcium-independent phospholipase A2 (EC:3.1.1.4
Protein Family	Peroxiredoxin
UniProt Gene Name	PRDX6
UniProt Synonym Gene Names	AOP2; KIAA0106; aiPLA2; NSGPx
NCBI Protein Information	peroxiredoxin-6
NCBI Summary for PRDX6	The protein encoded by this gene is a member of the thiol-specific antioxidant protein family. This protein is a bifunctional enzyme with two distinct active sites. It is involved in redox regulation of the cell; it can reduce H(2)O(2) and short chain organic, fatty acid, and phospholipid hydroperoxides. It may play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury. [provided by RefSeq, Jul 2008]
UniProt Comments for PRDX6	Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Can reduce H2O2 and short chain organic, fatty acid, and phospholipid hydroperoxides. Also has phospholipase activity, and can therefore either reduce the oxidized sn-2 fatty acyl grup of phospholipids (peroxidase activity) or hydrolyze the sn-2 ester bond of phospholipids (phospholipase activity). These activities are dependent on binding to phospholipids at acidic pH and to oxidized phospholipds at cytosolic pH. Plays a role in cell protection against oxidative stress by detoxifying peroxides and in phospholipid homeostasis.
Research Articles on PRDX6	**1.** the transition-state substrate analogue inhibitor of Prdx6 phospholipase A2 activity (MJ-33) was shown to suppress Nox1 activity, suggesting Nox1 activity is regulated by the phospholipase activity of Prdx6. Finally, wild type Prdx6, but not lipase or peroxidase mutant forms, supports Nox1-mediated cell migration in the HCT-116 colon epithelial cell model of wound closure
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