PRDX6 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PRDX6, Lysate
Full Product Name	Human PRDX6 Protein Lysate
Product Gene Name	PRDX6 lysate
Product Synonym Names	PRDX6; 1-Cys; aiPLA2; AOP2; HEL-S-128m; NSGPx; p29; PRX
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	25,035 Da
OMIM	602316
3D Structure	ModBase 3D Structure for P30041
Related Product Information for PRDX6 lysate	Human PRDX6 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of PRDX6 lysate 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	MBS8417745 is a lysate targeting PRDX6. Also known as Human PRDX6 Protein Lysate. Host: Human.

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
UniProt Primary Accession #	P30041
UniProt Secondary Accession #	P32077; Q5TAH4; Q5ZEZ8; A8JZY7
UniProt Related Accession #	P30041
GenBank Nucleotide #	NM_004905
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.-); aiPLA2; Antioxidant protein 2; Liver 2D page spot 40; Non-selenium glutathione peroxidase (EC:1.11.1.9); NSGPx; Red blood cells page spot 12
Protein Family	Peroxiredoxin
UniProt Gene Name	PRDX6
UniProt Synonym Gene Names	AOP2; KIAA0106; 1-Cys PRX; aiPLA2; NSGPx
UniProt Entry Name	PRDX6_HUMAN
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	PRDX6: 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. Belongs to the AhpC/TSA family. Rehydrin subfamily. Protein type: Amino Acid Metabolism - phenylalanine; Oxidoreductase; Energy Metabolism - methane; EC 1.11.1.9; EC 1.11.1.15; Phospholipase Chromosomal Location of Human Ortholog: 1q25.1 Cellular Component: extracellular space; membrane; lysosome; cytoplasmic membrane-bound vesicle; cytoplasm; cytosol Molecular Function: antioxidant activity; phospholipase A2 activity; protein binding; peroxiredoxin activity; glutathione peroxidase activity Biological Process: response to reactive oxygen species; phospholipid catabolic process; hydrogen peroxide catabolic process; response to oxidative stress
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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