Recombinant Mouse Prdx6 protein, His/T7-tagged

Cat. No. Prdx6-32M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Prdx6(Met1~Pro224) fused with His/T7 tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	1-224 a.a.
Description	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.
Form	pH7.4, 0.01% SKL, 1mM DTT, 5% Trehalose, Proclin300.
Molecular Mass	28.7kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

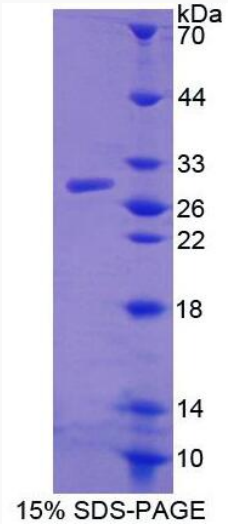
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Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Prdx6 peroxiredoxin 6 [Mus musculus]
Official Symbol	Prdx6
Synonyms	PRDX6; peroxiredoxin 6; peroxiredoxin-6; 1-Cys Prx; 1-Cys peroxiredoxin; antioxidant protein 2; non-selenium glutathione peroxidase; peroxiredoxin 5, related sequence 3; peroxiredoxin 6, related sequence 3; anti-oxidant protein 2, related sequence 3; acidic calcium-independent phospholipase A2; GPx; Aop2; CC26; CP-3; Ltw4; NSGP; Ltw-4; NSGPx; ORF06; Prdx5; Brp-12; Lvtw-4; aiPLA2; 1-cysPrx; AA690119; Aop2-rs3; Prdx6-rs3; mKIAA0106; 9430088D19Rik; KIAA0106;
Gene ID	11758
mRNA Refseq	NM_007453
Protein Refseq	NP_031479
MIM	
UniProt ID	O08709

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Chromosome Location	1 H2.1; 1 69.75 cM
Pathway	Metabolic pathways, organism-specific biosystem; Phenylalanine metabolism, organism-specific biosystem; Phenylalanine metabolism, conserved biosystem; phosphate acquisition II, organism-specific biosystem;
Function	antioxidant activity; catalytic activity; glutathione peroxidase activity; hydrolase activity; oxidoreductase activity; peroxidase activity; peroxiredoxin activity; phospholipase A2 activity;
	

15% SDS-PAGE

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