Recombinant Mouse Prdx6 Protein, His-tagged

Cat. No. Prdx6-1979M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Prdx6 Protein (Met1-Pro224) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Pro224
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.6 kDa Accurate Molecular Mass: 30 kDa
Purity	> 95%

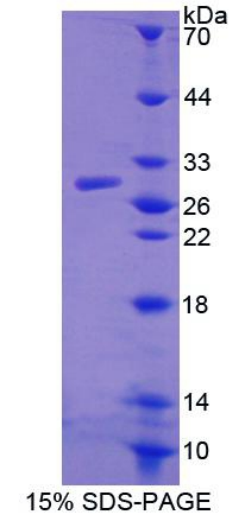
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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Prdx6 peroxiredoxin 6 [Mus musculus (house mouse)]
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

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mRNA Refseq	NM_007453
Protein Refseq	NP_031479
UniProt ID	O08709
	

15% SDS-PAGE

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