

Recombinant Mouse Prdx6 Protein, MYC/DDK-tagged

Cat. No. Prdx6-612M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse peroxiredoxin 6, complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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.
Molecular Mass	24.8 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Prdx6 peroxiredoxin 6 [Mus musculus (house mouse)]
Official Symbol	Prdx6
Synonyms	Prdx6; peroxiredoxin 6; GPx; Aop2; CP-3; Ltw4; Ltw-4; NSGPx; ORF06; Prdx5; Brp-12; Lvtw-4; aiPLA2; 1-cysPrx; AA690119; 1-Cys Prx; 9430088D19Rik; peroxiredoxin-6; 1-Cys peroxiredoxin; acidic calcium-independent phospholipase A2; anti-oxidant protein 2, related sequence 3; antioxidant protein 2; glutathione-dependent peroxiredoxin; non-selenium glutathione peroxidase; peroxiredoxin 5, related sequence 3; peroxiredoxin 6, related sequence 3; EC 1.11.1.27; EC 3.1.1.4
Gene ID	11758
mRNA Refseq	NM_007453
Protein Refseq	NP_031479
UniProt ID	O08709