Recombinant Human PRDX3 Protein, His-tagged

Cat. No. PRDX3-319H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRDX3(Val5~Trp233) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Val5~Trp233
Description	This gene encodes a mitochondrial protein with antioxidant function. The protein is similar to the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase, and it can rescue bacterial resistance to alkylhydroperoxide in E. coli that lack the C22 subunit. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologs suggest that these genes consist of a family that is responsible for the regulation of cellular proliferation, differentiation and antioxidant functions. This family member can protect cells from oxidative stress, and it can promote cell survival in prostate cancer. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 3, 13 and 22.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	26.4kDa

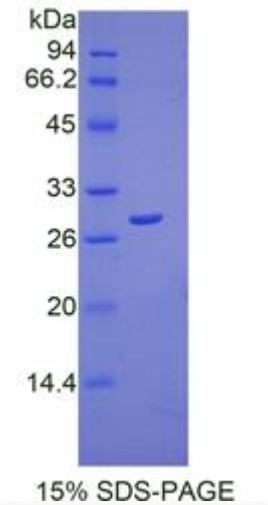
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Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 98%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the 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.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	PRDX3 peroxiredoxin 3 [Homo sapiens]
Official Symbol	PRDX3
Synonyms	PRDX3; peroxiredoxin 3; antioxidant protein 1 , AOP1; thioredoxin-dependent peroxide reductase, mitochondrial; AOP 1; MER5; SP 22; peroxiredoxin-3; peroxiredoxin III; protein MER5 homolog; antioxidant protein 1; AOP1; AOP-1; SP-22; HBC189; PRO1748; prx-III; MGC24293; MGC104387;
Gene ID	10935
mRNA Refseq	NM_006793

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Protein Refseq	NP_006784
MIM	604769
UniProt ID	P30048
	

15% SDS-PAGE

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