

Recombinant Human PRDX3

Cat. No. PRDX3-1025H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRDX3 protein was expressed in E.coli. MW=21.6 kDa.
Species	Human
Source	E.coli
Description	PRDX3 is a growing peroxidase family, whose mammalian members have been known to connect with cell proliferation, differentiation, and apoptosis. Many isoforms collected in accordance to the amino acid sequence homology, particularly amino-terminal region containing active site cysteine residue, and the thiol-specific antioxidant activity, distribute throughout all the kingdoms.
Molecular Weight	21.6 kDa
Research topic	Oxidative stress
Packaging size	1.0 U (0.83 mg)
Specific activity	1.20 U/mg (Unit definition: One unit will cause the oxidation of 1.0 μmole of NADPH at 25°C at pH 7.5).
Form	Lyophilized powder containing HEPES, pH 7.0.
Reconstitution	Reconstitute with 0.83 ml distilled water to obtain 1.0 mg/ml.

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GENE INFORMATION

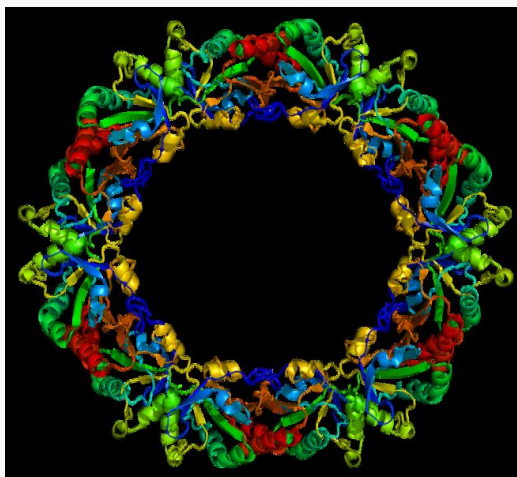
Gene Name	PRDX3 peroxiredoxin3 [Homo sapiens]
Official Symbol	PRDX3
Synonyms	PRDX3; peroxiredoxin 3; AOP1; MER5; AOP-1; SP-22; HBC189;PRO1748; prx-III; MGC24293; MGC104387; thioredoxin-dependent peroxide reductase,mitochondrial; peroxiredoxin-3; peroxiredoxin III; protein MER5 homolog;antioxidant protein 1; EC 1.11.1.15; OTTHUMP00000020590
Gene ID	10935
mRNA Refseq	NM_006793
Protein Refseq	NP_006784
MIM	604769
UniProt ID	P30048
Chromosome Location	10q25-q26
Pathway	Selenium Pathway; Validated targets ofC-MYC transcriptional activation
Function	alkyl hydroperoxide reductase activity;cysteine-type endopeptidase inhibitor activity involved in apoptotic process;identical protein binding; kinase binding; oxidoreductase activity;peroxidase activity; peroxiredoxin activity; protein C-terminus binding;protein binding; protein kinase binding

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