

Recombinant Human PRDX2

Cat. No. PRDX2-30464TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Peroxiredoxin 2 , 22 kDa.
Species	Human
Source	E.coli
Description	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. The crystal structure of this protein has been resolved to 2.7 angstroms. Transcript variants encoding distinct isoforms have been identified for this gene.
Biological activity	Enzymatic activity was confirmed by measuring the remaining peroxide after incubation of PRDX2 and peroxide for 20 min at room temperature. Specific activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25 C for 1 minute.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MASGNARIGK PAPDFKATAV VDGAFKEVKL SDYKGKYVVL FFYPLDFTFV CPTEIIAFSN RAEDFRKLGC EVLGVSVDSQ FTHLAWINTP RKEGGLGPLN IPLLADVTRR LSEDYGV LKT DEGIAYRGLF IIDGKGVLRQ ITVNDLPVGR SVDEALRLVQ AFQYTDEHGE VCPAGWKPGS DTIKPNVDDS KEYFSKHN
Sequence Similarities	Belongs to the ahpC/TSA family. Contains 1 thioredoxin domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PRDX2 peroxiredoxin 2 [Homo sapiens]
Official Symbol	PRDX2
Synonyms	PRDX2; peroxiredoxin 2; TDPX1; peroxiredoxin-2; MGC4104; natural killer enhancing factor B; NKEFB; PRP; PRX2; PRXII; thiol specific antioxidant 1; thioredoxin peroxidase 1; thioredoxin dependent peroxide reductase 1; torin; TSA;
Gene ID	7001
mRNA Refseq	NM_005809
Protein Refseq	NP_005800
MIM	600538

Uniprot ID	P32119
Chromosome Location	19p13.2
Pathway	Selenium Pathway, organism-specific biosystem;
Function	antioxidant activity; antioxidant activity; oxidoreductase activity; thioredoxin peroxidase activity; thioredoxin peroxidase activity;

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