

Recombinant Human PRDX2, His-tagged

Cat. No. PRDX2-29680TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Peroxiredoxin 2 with N-terminal His tag expressed in a Baculovirus infected Sf9 cell expression system, 22.7 kDa.
Species	Human
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.
Conjugation	HIS
Biological activity	Specific Activity: 149 pmol/min/μg. 3.45 μg of Peroxiredoxin 2 was incubated in 50 mM Hepes (pH 7.0) containing 200 μM NADPH, 3 μM thioredoxin, and 1.5 μM thioredoxin reductase. The reaction mixture was incubated at 30C for 5 min, followed by the addition
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM

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	Tris HCl, 100mM Sodium chloride, pH 8
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
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

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Pathway	Selenium Pathway, organism-specific biosystem;
Function	antioxidant activity; antioxidant activity; oxidoreductase activity; thioredoxin peroxidase activity; thioredoxin peroxidase activity;

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