

Recombinant Full Length Human PRDX2 Protein, C-Flag-tagged

Cat. No. PRDX2-1239HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PRDX2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	21.7 kDa
AA Sequence	MASGNARIGKPAPDFKATAVVDGAFKEVKLSYKGYVVLFFYPLDFTFVCPTEIIAF SNRAEDFRKLGCEVLGVSVDSQFTHLAWINTPRKEGGLGPLNIPLADVTRRLSED YGVLTDEGIAYRGLFIIDGKGVLRQ

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	ITVNDLPVGRSVDEALRLVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDDSKEYFSK HNTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

Gene Name	PRDX2 peroxiredoxin 2 [Homo sapiens (human)]
Official Symbol	PRDX2
Synonyms	PRP; TSA; PRX2; PTX1; TPX1; NKEFB; PRXII; TDPX1; NKEF-B; HEL-S-2a
Gene ID	7001
mRNA Refseq	NM_005809.6

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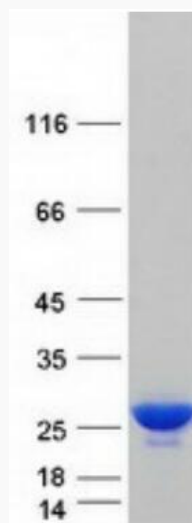
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Protein Refseq NP_005800.3

MIM 600538

UniProt ID P32119



Coomassie blue staining of purified PRDX2 protein.

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