

Product datasheet for **TP307413**

Peroxiredoxin 2 (PRDX2) (NM_005809) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human peroxiredoxin 2 (PRDX2), nuclear gene encoding mitochondrial protein, transcript variant 1, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC207413 representing NM_005809
Red=Cloning site **Green**=Tags(s)

MASGNARIGKPAPDFKATAVVDGAFKEVKLSYKGYVWVFFYPLDFTFVCPTETIIAFSNRAEDFRKLGCEVLGVSVD SQFTHLAWINTPRKEGGLPLNIPLLADVTRRLSEYGVLTDEGIAYRGLFIIDGKGVLRQITVNDLPVGRSVD EALRLVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDDSKEYFSKHN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 21.7 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_005800](#)

Locus ID: 7001

UniProt ID: [P32119](#), [V9HW12](#)



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RefSeq Size: 1039

Cytogenetics: 19p13.13

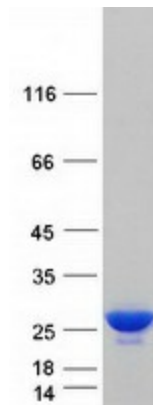
RefSeq ORF: 594

Synonyms: HEL-S-2a; NKEF-B; NKEFB; PRP; PRX2; PRXII; PTX1; TDPX1; TPX1; TSA

Summary: 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. [provided by RefSeq, Mar 2013]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified PRDX2 protein (Cat# TP307413). The protein was produced from HEK293T cells transfected with PRDX2 cDNA clone (Cat# [RC207413]) using MegaTran 2.0 (Cat# [TT210002]).