

Recombinant Human PRDX2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PRDX2-697H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

PRDX2 MS Standard C13 and N15-labeled recombinant protein (NP_859428) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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.

Molecular Mass

15.6 kDa

AA Sequence

MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGYVVLFFYPLDFTFVCPTEIIAF
SNRAEDFRKLGCEVLGVSVD SQFTHLAWYEQGPKREVA AKLTPSGPSSVASWPLL
NLWNLRFPIVKIMETLPPKSLRMMTVISITRTRPLEQKLISEEDLAANDILDYKDDDDK
V

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PRDX2 peroxiredoxin 2 [Homo sapiens (human)]
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; NKEF-B; thiol-specific antioxidant 1; thiol-specific antioxidant protein; natural killer cell-enhancing factor B; thioredoxin-dependent peroxide reductase 1; TPX1;
Gene ID	7001
mRNA Refseq	NM_181738
Protein Refseq	NP_859428
MIM	600538

 Tel: 1-631-559-9269 1-516-512-3133

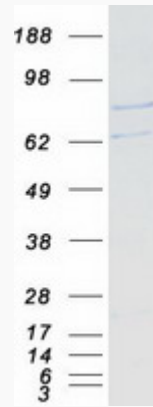
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID

P32119

SDS-PAGE



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA