

Recombinant Human PRDX3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PRDX3-4361H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PRDX3 MS Standard C13 and N15-labeled recombinant protein (NP_006784) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a mitochondrial protein with antioxidant function. The protein is similar to the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase, and it can rescue bacterial resistance to alkylhydroperoxide in E. coli that lack the C22 subunit. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologs suggest that these genes consist of a family that is responsible for the regulation of cellular proliferation, differentiation and antioxidant functions. This family member can protect cells from oxidative stress, and it can promote cell survival in prostate cancer. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 3, 13 and 22.
Molecular Mass	27.7 kDa
AA Sequence	MAAAVGRLLRASVARHVS AIPWGISATAALRPAACGRTSLTNLLCSGSSQAKLFSTS SSCHAPAVTQHAPYFKGTAVVNGEFKDLSLDDFKGKYLVLFFYPLDFTFVCPTEIVAF

 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

SDKANEFHVDNCEVVAVSVDSHFSLAWINTPRKNGGLGHMNIALLSDLTKQISR
DYGVLLGSGGLALRGLFIIDPNGVIKHLNVNDLPVGRSVEETLRLVKAFQYVETHGEVCP
ANWTPDSPTIKPSPAASKEYFQKVNQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 PRDX3 peroxiredoxin 3 [Homo sapiens (human)]

Official Symbol PRDX3

Synonyms PRDX3; peroxiredoxin 3; antioxidant protein 1, AOP1; thioredoxin-dependent peroxide reductase, mitochondrial; AOP 1; MER5; SP 22; peroxiredoxin-3; peroxiredoxin III; protein MER5 homolog; antioxidant protein 1; AOP1; AOP-1; SP-22; HBC189; PRO1748; prx-III; MGC24293; MGC104387;

Gene ID 10935

mRNA Refseq NM_006793

Protein Refseq NP_006784

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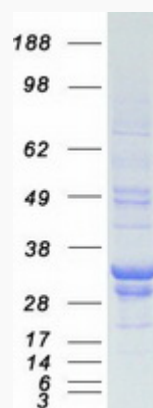
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MIM 604769

UniProt ID P30048

SDS-PAGE



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