

## Product datasheet for PH305080

### Peroxiredoxin 3 (PRDX3) (NM\_006793) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PRDX3 MS Standard C13 and N15-labeled recombinant protein (NP_006784)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205080
Predicted MW:	27.7 kDa
Protein Sequence:	>RC205080 protein sequence Red=Cloning site Green=Tags(s)  MAAAVGRLLRASVARHVS AIPWGISATAALRPAACGR TSLTNLLCSGSSQAKLFSTSSSCHAPAVTQHAP YFKGTAVVNGEFKDLSLDDFKGKYLVLFFYPLDFTFVCPTEIVAFSDKANEFHDVNCEVVAVSVD SHFSH LAWINTPRKNGGLGHMNIALLSDLTKQISR DYGVLLGSGLALRGLFIIDPNGVIKHLVNDLPVGRSVE ETLRLVKAFQYVETHGEVCPANWTPDSPTIKPSPAASKEYFQKVNQ  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_006784</a>
RefSeq Size:	1641
RefSeq ORF:	768
Synonyms:	AOP-1; AOP1; HBC189; MER5; PRO1748; prx-III; SP-22
Locus ID:	10935
UniProt ID:	<a href="#">P30048</a> , <a href="#">A0A384MTR2</a>



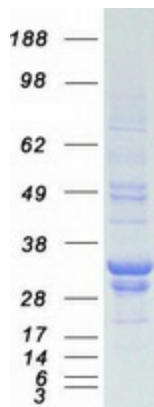
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Cytogenetics: 10q26.11

**Summary:** 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. [provided by RefSeq, Oct 2014]

Protein Families: Transcription Factors

### Product images:



Coomassie blue staining of purified PRDX3 protein (Cat# [TP305080]). The protein was produced from HEK293T cells transfected with PRDX3 cDNA clone (Cat# [RC205080]) using MegaTran 2.0 (Cat# [TT210002]).