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# Product datasheet for TP305080L

## Peroxiredoxin 3 (PRDX3) (NM_006793) Human Recombinant Protein

### Product data:

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| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human peroxiredoxin 3 (PRDX3), nuclear gene encoding mitochondrial protein, transcript variant 1, 1 mg |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >RC205080 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MAAAVGRLLRASVARHVSAIPWGISATAALRPAACGRTSLTNLLCSGSSQAKLFSTSSSCHAPAVTQHAP<br>YFKGTAVVNGEFKDLSLDDFKGKYLVLFFYPLDFTFVCPTEIVAFSDKANEFHDVNCEVVAVSVDSHFSH<br>LAWINTPRKNGGLGHMNIALLSDLTKQISRDYGVLLEGSGLALRGLFIIDPNGVIKHLSVNDLPVGRSVE<br>ETLRLVKAFQYVETHGEVCPANWTPDSPTIKPSPAASKEYFQKVNQ<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 21.4 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_006784 |
| **Locus ID:** | 10935 |

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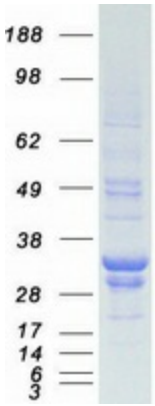
| **UniProt ID:** | P30048, A0A384MTR2 |
| **RefSeq Size:** | 1641 |
| **Cytogenetics:** | 10q26.11 |
| **RefSeq ORF:** | 768 |
| **Synonyms:** | AOP-1; AOP1; HBC189; MER5; PRO1748; prx-III; SP-22 |
| **Summary:** | This gene encodes a mitochondrial protein with antioxidant function. The protein is similar 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]).