

Product datasheet for **TP720965M**

Peroxiredoxin 3 (PRDX3) (NM_006793) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human peroxiredoxin 3 (PRDX3), nuclear gene encoding mitochondrial protein, transcript variant 1 |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | Pro63-Gln256 |
| Tag: | Tag Free |
| Predicted MW: | 21.6 kDa |
| Purity: | >95% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | Supplied as a 0.2 um filtered solution of 20mM TrisHCl, pH 8.0. |
| Endotoxin: | Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg) |
| Storage: | Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles. |
| Stability: | Stable for at least 3 months from date of receipt under proper storage and handling conditions. |
| RefSeq: | NP_006784 |
| Locus ID: | 10935 |
| UniProt ID: | P30048 , A0A384MTR2 |
| RefSeq Size: | 1641 |
| Cytogenetics: | 10q26.11 |
| RefSeq ORF: | 768 |
| Synonyms: | AOP-1; AOP1; HBC189; MER5; PRO1748; prx-III; SP-22 |



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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