

## Recombinant Full Length Human Peroxiredoxin 1, His-tagged

**Cat. No.** PRDX1-423H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human Peroxiredoxin I (GenBank Accession No. NM_005614), full length, with N-terminal 6x His tag, MW=23 kDa, expressed in a Baculovirus infected Sf9 cell expression system.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Length</b>   | 1-199 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Peroxiredoxin-1 is a protein that in humans is encoded by the PRDX1 gene. This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Three transcript variants encoding the same protein have been identified for this gene. |
| <b>Application</b>      | Useful for the study of biochemical function.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | 90%.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Formulated In</b>    | 25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, 3 mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Stability</b>        | >6 months at -80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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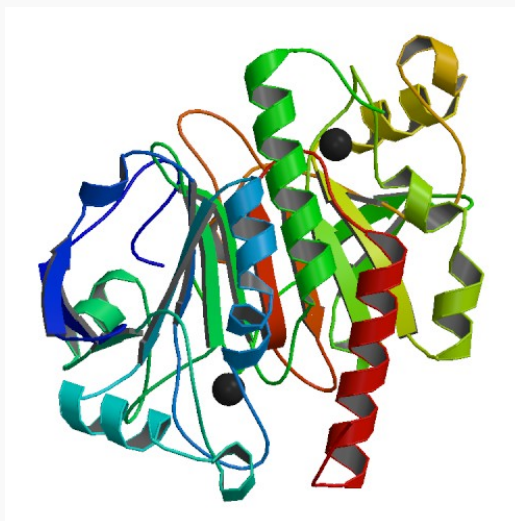
| Full Length                | Full L.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>           | PRDX1 peroxiredoxin 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>            | PRDX1; peroxiredoxin 1; EC 1.11.1.15; MSP23; NKEF-A; NKEFA; OTTHUMP00000009234; PAG; PAGA; PAGB; PRX1; PRXI; TDPX2; Natural killer cell-enhancing factor A; Proliferation-associated gene protein; Thioredoxin peroxidase 2; Thioredoxin-dependent peroxide reductase 2; natural killer-enhancing factor A; proliferation-associated gene A; natural killer-enhancing factor A; thioredoxin-dependent peroxide reductase 2; Peroxiredoxin-1 |
| <b>Gene ID</b>             | 5052                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_002574                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_002565                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 176763                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | Q06830                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 1p34.1                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>            | oxidoreductase activity; peroxiredoxin activity; protein binding                                                                                                                                                                                                                                                                                                                                                                            |

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on 1qq2.



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