

Recombinant human Peroxiredoxin-1

Catalog No: #AP71702



Package Size: #AP71702-1 20ug #AP71702-2 100ug #AP71702-3 1mg

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Support: tech@signalwayantibody.com

Description

Product Name	Recombinant human Peroxiredoxin-1
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-199aaSequence Info:Full Length
Other Names	Natural killer cell-enhancing factor A ;NKEF-AProliferation-associated gene protein ;PAGThioredoxin peroxidase 2Thioredoxin-dependent peroxide reductase 2
Accession No.	Q06830
Uniprot	Q06830
GeneID	5052;
Calculated MW	49.1 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	MSSGNAKIGH PAPNFKATAVMPDGQFKDISLSDYKGYV VFFFYPLDFTFVCPTEIIAFSDRAEEFKKLNQCQVIG ASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQDYGV LKADEGISFRGLFIIDDKGILRQITVNDLPVG RSVDETLRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin syst but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H2O2. Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation .

References

A human cDNA corresponding to a gene overexpressed during cell proliferation encodes a product sharing homology with amoebic and bacterial proteins.Prospieri M.T., Ferbus D., Karczinski I., Goubin G.J. Biol. Chem. 268:11050-11056(1993)Research Topic:Metabolism

Note: This product is for in vitro research use only