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Datasheet for ABIN7317603

## Peroxiredoxin 2 Protein (PRDX2) (His tag)

### Overview

Quantity:	100 µg
Target:	Peroxiredoxin 2 (PRDX2)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Peroxiredoxin 2 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Peroxiredoxin 2/PRDX2 Protein (His Tag)(Active)
Sequence:	Met 1-Asn 198
Characteristics:	A DNA sequence encoding the human PRDX2 (P32119) (Met 1-Asn 198) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to reduce H2O2. The specific activity is >300 pmoles/min/µg.

### Target Details

Target:	Peroxiredoxin 2 (PRDX2)
Alternative Name:	Peroxiredoxin 2/PRDX2 ( <a href="#">PRDX2 Products</a> )

## Target Details

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**Background:** Background: Peroxiredoxin-2, also known as Natural killer cell-enhancing factor B, NKEF-B, Thiol-specific antioxidant protein, Thioredoxin peroxidase 1, Thioredoxin-dependent peroxide reductase 1, PRDX2 and NKEFB, is a cytoplasm protein which belongs to the ahpC / TSA family. Peroxiredoxin-2 / PRDX2 contains one thioredoxin domain. Peroxiredoxin-2 / PRDX2 is involved in redox regulation of the cell. It reduces peroxides with reducing equivalents provided through the thioredoxin system. Peroxiredoxin-2 / PRDX2 is not able to receive electrons from glutaredoxin. It may play an important role in eliminating peroxides generated during metabolism. Peroxiredoxin-2 / PRDX2 might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H2O2. The Peroxiredoxins / Prx are a family of peroxidases that can reduce H2O2 using an electron from thioredoxin (Trx) or other substances. The mammalian Peroxiredoxins / Prx family is divided into six groups ( PRDX1,PRDX2, PRDX3, PRDX4, PRDX5, PRDX6 ) on the basis of homology of amino acid sequences. They are located in the cytosol and play a role in the cell signaling system. All six mammalian peroxiredoxins are expressed in the lung. Peroxiredoxins / Prx is overexpressed in breast cancer tissues to a great extent suggesting that Peroxiredoxins / Prx has a proliferative effect and may be related to cancer development or progression.

Synonym: HEL-S-2a;NKEF-B;NKEFB;PRP;PRX2;PRXII;PTX1;TDPX1;TPX1;TSA

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**Molecular Weight:** 24 kDa

**UniProt:** [P32119](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** Please refer to the printed manual for detailed information.

**Buffer:** Lyophilized from sterile 50 mM Tris, 100 mM NaCl, pH 8.0, 10 % glycerol

**Storage:** 4 °C,-20 °C,-80 °C

**Storage Comment:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.