

Datasheet for ABIN7318889

**Peroxiredoxin 1 Protein (PRDX1) (His tag)**[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	Peroxiredoxin 1 (PRDX1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Peroxiredoxin 1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Peroxiredoxin 1/PRDX1 Protein (His Tag)
Sequence:	Met 1-Lys199
Characteristics:	Recombinant Human Peroxiredoxin-1 is produced by our E.coli expression system and the target gene encoding Met1-Lys199 is expressed with a 6His tag at the N-terminus, 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	Peroxiredoxin 1 (PRDX1)
Alternative Name:	Peroxiredoxin 1/PRDX1 ( <a href="#">PRDX1 Products</a> )
Background:	Background: Peroxiredoxin-1 (PRDX1) contains 1 thioredoxin domain and belongs to the AhpC/TSA family. PRDX1 constitutively expressed in most human cells and it is induced to

## Target Details

higher levels upon serum stimulation in untransformed and transformed cells. PRDX1 is involved in redox regulation of the cell. It reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin and play an important role in eliminating peroxides generated during metabolism. PRDX1 might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H2O2. It reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation. It may contribute to the antiviral activity of CD8(+) T-cells and have a proliferative effect in cancer development or progression.

Synonym: Peroxiredoxin-1,Natural killer cell-enhancing factor A,NKEF-A,Proliferation-associated gene protein,PAG,Thioredoxin peroxidase 2,Thioredoxin-dependent peroxide reductase 2,PAGA,PAGB, TDPX2,MSP23,NKEF-A,NKEFA,PAG,PRX1,PRXI,TDPX2

Molecular Weight:	25.3 kDa
UniProt:	<a href="#">Q06830</a>
Pathways:	<a href="#">p53 Signaling</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">CXCR4-mediated Signaling Events</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of PBS, 10 % glycerol, 0.1 mM DTT, pH 6.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.