

Datasheet for ABIN7320235

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

## Overview

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

## Product Details

Purpose:	Recombinant Mouse Peroxiredoxin 1/PRDX1 Protein (His Tag)
Sequence:	Met 1-Lys 199
Characteristics:	A DNA sequence encoding the mouse PRDX1 (P35700) (Met 1-Lys 199) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 85 % as determined by SDS-PAGE

## Target Details

Target:	Peroxiredoxin 1 (PRDX1)
Alternative Name:	Peroxiredoxin 1/PRDX1 ( <a href="#">PRDX1 Products</a> )
Background:	Background: Peroxiredoxin-1, also known as Thioredoxin peroxidase 2, Natural killer cell-enhancing factor A, PRDX1, and PAGA, is a member of the ahpC/TSA family. Peroxiredoxin-1 is constitutively expressed in most human cells. It is induced to higher levels upon serum stimulation in untransformed and transformed cells. Peroxiredoxins (PRDXs) are a family of

## Target Details

antioxidant enzymes that are also known as scavengers of peroxide in mammalian cells. The overexpression of Peroxiredoxin-1, which is one of the peroxiredoxins that is a ubiquitously expressed protein, was related to a poor prognosis in several types of human cancers. Peroxiredoxin-1 is involved in redox regulation of the cell. It reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin and may play an important role in eliminating peroxides generated during metabolism. Peroxiredoxin-1 Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H<sub>2</sub>O<sub>2</sub>. The reduced Peroxiredoxin-1 expression is an important factor in esophageal squamous cancer progression and could serve as a useful prognostic marker.

Synonym: MSP23,NkefA,OSF-3,OSF3,PAG,Paga,Prdx1,prx1,Prxl,Tdpx2,TDX2,TPxA

Molecular Weight: 23.5 kDa

UniProt: [P35700](#)

Pathways: [p53 Signaling](#), [EGFR Signaling Pathway](#), [CXCR4-mediated Signaling Events](#)

## Application Details

Restrictions: For Research Use only

## Handling

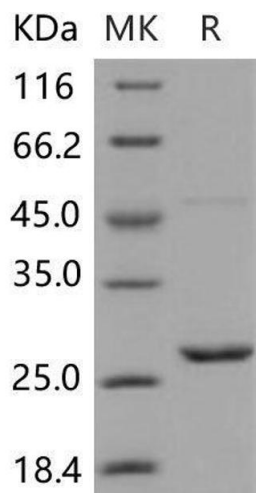
Format: Lyophilized

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

Buffer: Lyophilized from sterile PBS, 10 % glycerol, pH 7.4

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.



Western Blotting

Image 1.