

Datasheet for ABIN7320236

**Peroxiredoxin 5 Protein (PRDX5) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	Peroxiredoxin 5 (PRDX5)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Peroxiredoxin 5 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Mouse Peroxiredoxin 5/PRDX5 Protein (His Tag)(Active)
Sequence:	Met 49-Leu 210
Characteristics:	A DNA sequence encoding the mouse PRDX5 (mitochondrial) (P99029-1) (Met 49-Leu 210) was expressed, with a polyhistide tag at the N-terminus.
Purity:	> 92 % as determined by SDS-PAGE
Biological Activity Comment:	Measured by its ability to reduce H <sub>2</sub> O <sub>2</sub> . The specific activity is > 100 pmoles/min/µg.

## Target Details

Target:	Peroxiredoxin 5 (PRDX5)
Alternative Name:	Peroxiredoxin 5/PRDX5 ( <a href="#">PRDX5 Products</a> )
Background:	Background: Peroxiredoxin-5, also known as Alu corepressor 1, Antioxidant enzyme B166, Liver

## Target Details

tissue 2D-page spot 71B, Peroxisomal antioxidant enzyme, Thioredoxin peroxidase PMP20, Thioredoxin reductase, PRDX5 and ACR1, is cytoplasm protein which belongs to the peroxiredoxin 2 family. Peroxiredoxin-5 / PRDX5 reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. Peroxiredoxin-5 / PRDX5 is involved in intracellular redox signaling. The Peroxiredoxins / Prx are a family of 25 kDa peroxidases that can reduce H<sub>2</sub>O<sub>2</sub> 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: AOE166, AOPP, Pmp20, Prdx6, PrxV

Molecular Weight: 18.5 kDa

Pathways: [Cell Redox Homeostasis](#)

## Application Details

Restrictions: For Research Use only

## Handling

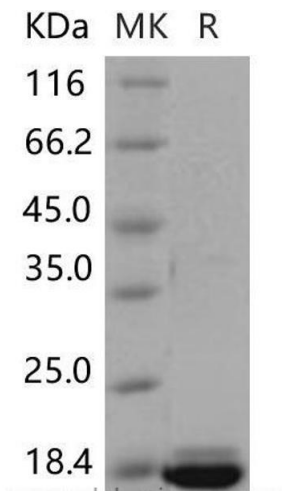
Format: Lyophilized

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

Buffer: Lyophilized from sterile PBS, pH 7.5

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.