

Datasheet for ABIN2785911

**anti-Peroxiredoxin 5 antibody (Middle Region)****2** Images**1** Publication[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	Peroxiredoxin 5 (PRDX5)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Goat, Dog, Sheep, Guinea Pig, Horse, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Peroxiredoxin 5 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human PRDX5
Sequence:	TDLLDDSLV SIFGNRRLKR FSMVVQDGIV KALNVEPDGT GLTCSLAPNI
Predicted Reactivity:	Dog: 86%, Goat: 79%, Guinea Pig: 79%, Horse: 93%, Human: 100%, Mouse: 93%, Pig: 93%, Rat: 93%, Sheep: 79%
Characteristics:	This is a rabbit polyclonal antibody against PRDX5. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	Peroxiredoxin 5 (PRDX5)
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## Target Details

Alternative Name: PRDX5 ([PRDX5 Products](#))

Background: PRDX5 is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution. This gene uses alternate in-frame translation initiation sites to generate mitochondrial or peroxisomal/cytoplasmic forms. This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution. This gene uses alternate in-frame translation initiation sites to generate mitochondrial or peroxisomal/cytoplasmic forms. Three transcript variants encoding distinct isoforms have been identified for this gene.

Alias Symbols: ACR1, AOEB166, B166, MGC117264, MGC142283, MGC142285, PLP, PMP20, PRDX6, PRXV, SBB10

Protein Interaction Partner: UBC, MDM2, WWOX, ATF2, PEX5, TOMM40, PRDX6, STAM, SUMO1, UBE2B, UBE2A, PRDX2, VAMP2, SOD1, RPS12, RAD23B, PTMS, PRDX1, MDH1, IGBP1, APP, ZFYVE19, PSRC1, GINS4, UBAP2, PTPN23, PTGR1, PARK7, IFT27, SEC24A, SSSCA1, ICT1, BABAM1, CCDC90B,

Protein Size: 125

Molecular Weight: 14 kDa

Gene ID: 25824

NCBI Accession: [NM\\_181652](#), [NP\\_857635](#)

UniProt: [B7ZVW3](#)

Pathways: [Cell RedoxHomeostasis](#)

## Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 125 AA

Restrictions: For Research Use only

## Handling

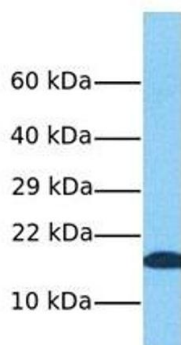
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in:	Carson, Cheung, Scherer: "Duplication and relocation of the functional DPY19L2 gene within low copy repeats." in: <b>BMC genomics</b> , Vol. 7, pp. 45, (2006) ( <a href="#">PubMed</a> ).
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## Images

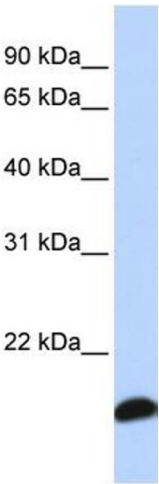
### PRDX5



Host: Rabbit  
Target Name: PRDX5  
Sample Type: Human Fetal Lung  
Antibody Dilution: 1ug/ml

### Western Blotting

**Image 1.** Host: Rabbit Target Name: PRDX5 Sample Tissue: Human Fetal Lung Antibody Dilution: 1.0ug/ml



Western Blotting

**Image 2.** WB Suggested Anti-PRDX5 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:12500 Positive Control: Human Lung