

Datasheet for ABIN3032189

**anti-Peroxiredoxin 3 antibody (AA 110-256)****6** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	Peroxiredoxin 3 (PRDX3)
Binding Specificity:	AA 110-256
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Peroxiredoxin 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	Human partial recombinant protein (AA 110-256) was used as the immunogen for this PRDX3 antibody.
Isotype:	IgG
Purification:	Antigen affinity

## Target Details

Target:	Peroxiredoxin 3 (PRDX3)
Alternative Name:	PRDX3 (Peroxiredoxin 3) ( <a href="#">PRDX3 Products</a> )
Background:	Peroxiredoxin 3, also known as AOP-1, MER5, SP-22 or PRX3, is localized exclusively in mitochondria. The deduced 256-amino acid human protein shares 86 % amino acid sequence

## Target Details

similarity with mouse, and significant similarity with both the human proliferation-associated gene A product and the mouse stress-induced peritoneal macrophage protein Msp23. The PRDX3 gene is mapped on 10q26.11. Expression of Peroxiredoxin 3 is induced by MYC and is reduced in c-myc  $-/-$  cells. Chromatin immunoprecipitation analysis spanning the entire PRDX3 genomic sequence revealed that MYC binds preferentially to a 930-bp region surrounding exon 1. Results using mitochondria-specific fluorescent probes demonstrated that Peroxiredoxin 3 is essential for maintaining mitochondrial mass and membrane potential in transformed rat and human cells. These data provided evidence that PRDX3 is a MYC target gene that is required to maintain normal mitochondrial function.

Gene ID: 10935

Pathways: [Ribonucleoside Biosynthetic Process](#), [Methionine Biosynthetic Process](#)

## Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the PRDX3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1  $\mu$ g/mL,IHC (Paraffin): 0.5-1  $\mu$ g/mL,ICC: 0.5-1  $\mu$ g/mL

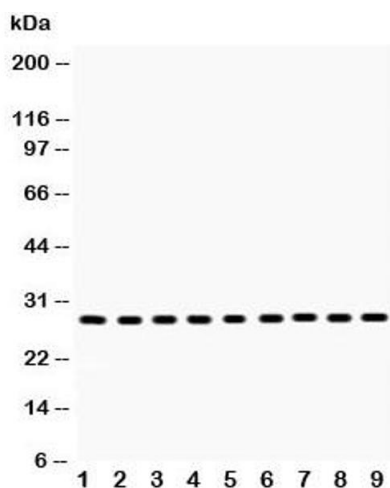
Restrictions: For Research Use only

## Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

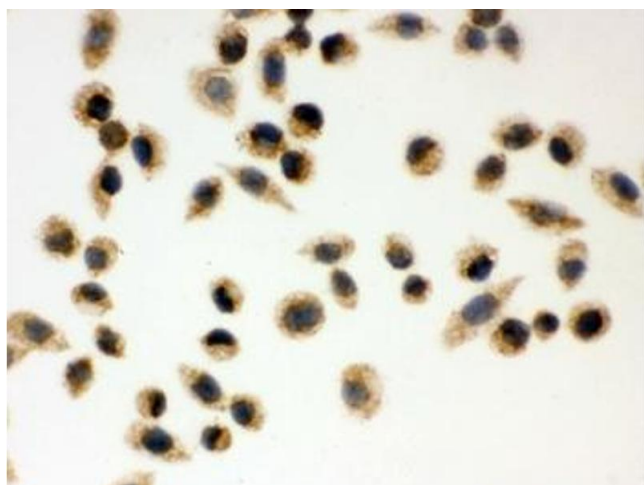
Storage: -20 °C

Storage Comment: After reconstitution, the PRDX3 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



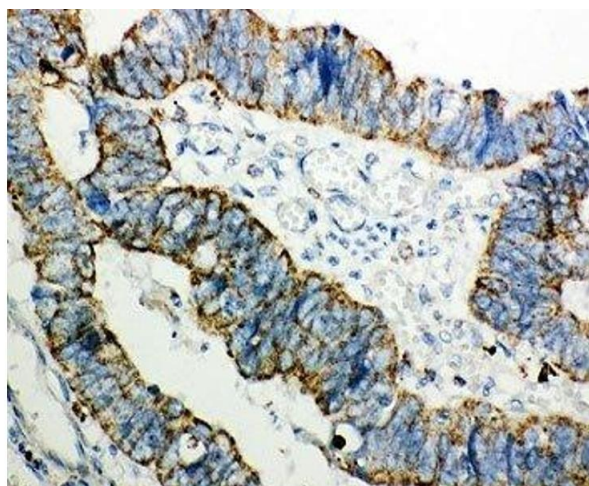
#### Western Blotting

**Image 1.** Western blot testing of PRDX3 antibody and Lane 1: rat brain



#### Immunocytochemistry

**Image 2.** ICC testing of FFPE human SMMC-7721 cells with PRDX3 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



#### Immunohistochemistry

**Image 3.** IHC-P: PRDX3 antibody testing of human intestinal cancer tissue

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3032189.