

Datasheet for ABIN3044200

anti-Peroxiredoxin 3 antibody (C-Term)**4** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Peroxiredoxin 3 (PRDX3)
Binding Specificity:	AA 239-256, C-Term
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

Purpose:	Rabbit IgG polyclonal antibody for Thioredoxin-dependent peroxide reductase, mitochondrial(PRDX3) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Peroxiredoxin 3(239-256aa TIKPSPAASKEYFQKVNQ), different from the related mouse and rat sequences by three amino acids.
Sequence:	TIKPSPAASK EYFQKVNQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Thioredoxin-dependent peroxide reductase, mitochondrial(PRDX3) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.

Product Details

Gene Name: peroxiredoxin 3

Protein Name: Thioredoxin-dependent peroxide reductase, mitochondrial

Purification: Immunogen affinity purified.

Target Details

Target: Peroxiredoxin 3 (PRDX3)

Alternative Name: PRDX3 ([PRDX3 Products](#))

Background: PRDX3(Peroxiredoxin 3) also known as AOP-1, MER5, SP-22 or PRX3, is localized exclusively in mitochondria. The deduced 256-amino acid human AOP1 protein shares 86 % amino acid sequence similarity with mouse Aop1, 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 PRDX3 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 PRDX3 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.

Synonyms: Antioxidant Protein 1 antibody|AOP 1 antibody|AOP-1 antibody|AOP1 antibody|HBC189 antibody|MER 5 antibody|MER5 antibody|MGC104387 antibody|MGC24293 antibody|mitochondrial antibody|Mitochondrial thioredoxin dependent peroxide reductase antibody|peroxiredoxin 3 antibody|PeroxiredoxinIII antibody|Peroxiredoxin-3 antibody|Peroxiredoxin3 antibody|PRDX 3 antibody|PRDX3 antibody|PRDX3_HUMAN antibody|PRO1748 antibody|Protein MER5 homolog antibody|PRX III antibody|PRXIII antibody|Prx-III antibody|PRX3 antibody|SP 22 antibody|SP-22 antibody|SP22 antibody|Thioredoxin dependent peroxide reductase mitochondrial antibody|Thioredoxin dependent peroxide reductase precursor antibody|Thioredoxin-dependent peroxide reductase antibody

UniProt: [P30048](#)

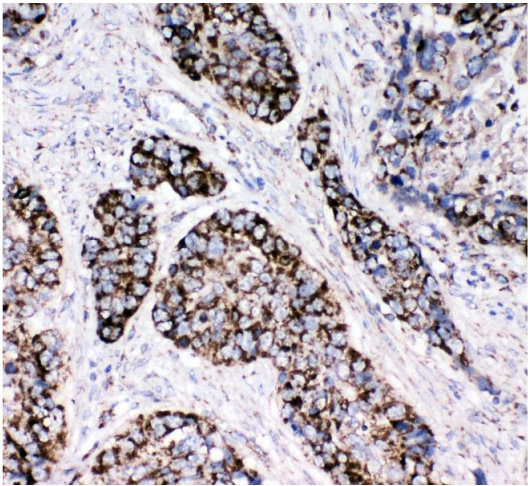
Pathways: [Ribonucleoside Biosynthetic Process](#), [Methionine Biosynthetic Process](#)

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.
Restrictions:	For Research Use only

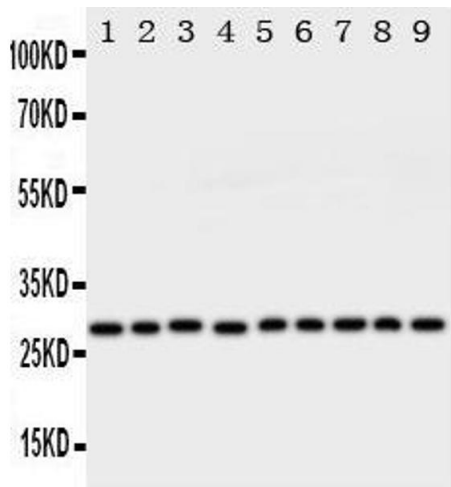
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months



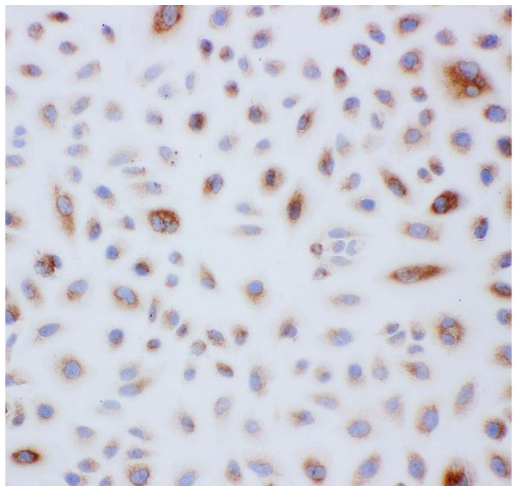
Immunohistochemistry

Image 1. Anti-Peroxiredoxin 3 antibody, IHC(P) IHC(P):
Human Lung Cancer Tissue



Western Blotting

Image 2.



Immunohistochemistry

Image 3. Anti-Peroxiredoxin 3 antibody, ICC ICC: A549 Cell

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3044200.