

Datasheet for ABIN7269237
anti-Peroxiredoxin 3 antibody

3 Images

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Overview

Quantity:	100 µL
Target:	Peroxiredoxin 3 (PRDX3)
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	Peroxiredoxin 3 (PRDX3) Rabbit mAb
Immunogen:	A synthesized peptide derived from human Peroxiredoxin 3 (PRDX3) (PRDX3)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Peroxiredoxin 3 (PRDX3)
Alternative Name:	PRDX3 (PRDX3 Products)
Background:	This gene encodes a mitochondrial protein with antioxidant function. The protein is similar to the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase, and it can rescue

Target Details

bacterial resistance to alkylhydroperoxide in E. coli that lack the C22 subunit. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologs suggest that these genes consist of a family that is responsible for the regulation of cellular proliferation, differentiation and antioxidant functions. This family member can protect cells from oxidative stress, and it can promote cell survival in prostate cancer. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 3, 13 and 22. [provided by RefSeq, Oct 2014],AOP-1, AOP1, HBC189, MER5, PRO1748, SP-22, prx-III,Cancer,Cardiovascular,Cardiovascular diseases,Cardiovascular diseases_Heart disease,Endocrine & Metabolism,Heart,Immunology & Inflammation,Neurodegenerative Diseases,Neurodegenerative Diseases_Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimers Disease,Neuroscience,Signal Transduction,PRDX3

Molecular Weight: 26kDa

Gene ID: 10935

UniProt: [P30048](#)

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

Application Details

Application Notes: WB,1:500 - 1:2000, IHC,1:50 - 1:200, IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

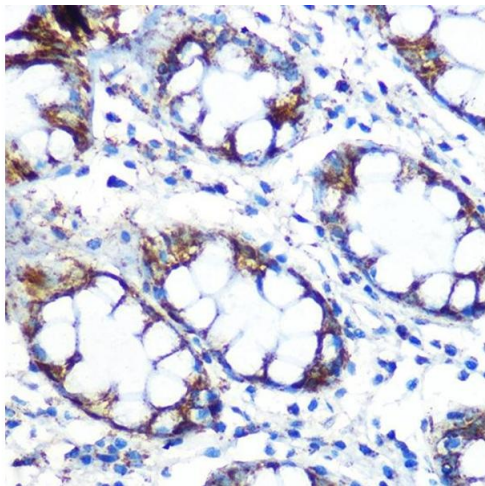
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

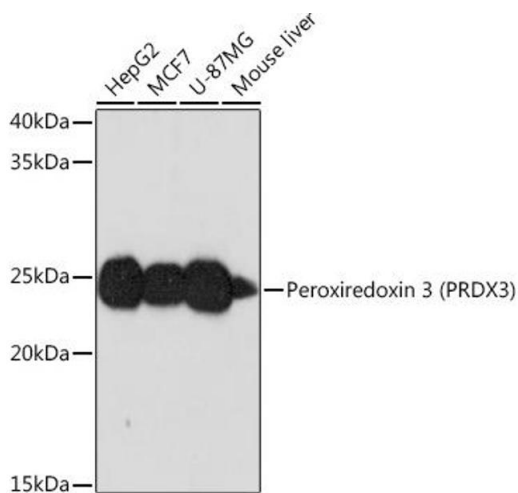
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



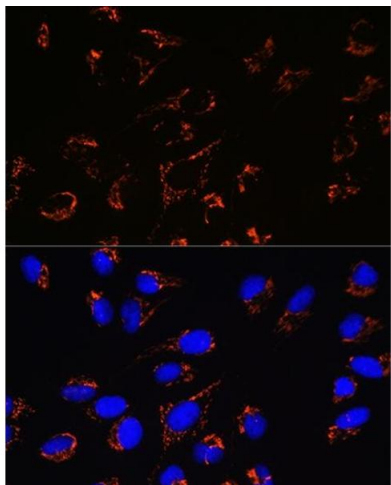
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon using Peroxiredoxin 3 (PRDX3) (PRDX3) Rabbit mAb (ABIN7269237) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using Peroxiredoxin 3 (PRDX3) (PRDX3) Rabbit mAb (ABIN7269237) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Immunofluorescence

Image 3. Immunofluorescence analysis of U-2 OS cells using Peroxiredoxin 3 (PRDX3) (PRDX3) Rabbit mAb (ABIN7269237) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.