

Datasheet for ABIN7256588
anti-Peroxiredoxin 3 antibody

3 Images

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Overview

Quantity:	200 µL
Target:	Peroxiredoxin 3 (PRDX3)
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Peroxiredoxin 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein of human PRDX3 (NP_006784.1).
Isotype:	IgG
Characteristics:	Polyclonal Antibody
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 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

Target Details

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.

Molecular Weight: Observed_MW: 28 kDa
Calculated_MW: 25 kDa/27 kDa

Gene ID: 10935

UniProt: [P30048](#)

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

Application Details

Application Notes: WB 1:500-1:2000 IF 1:50-1:100

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

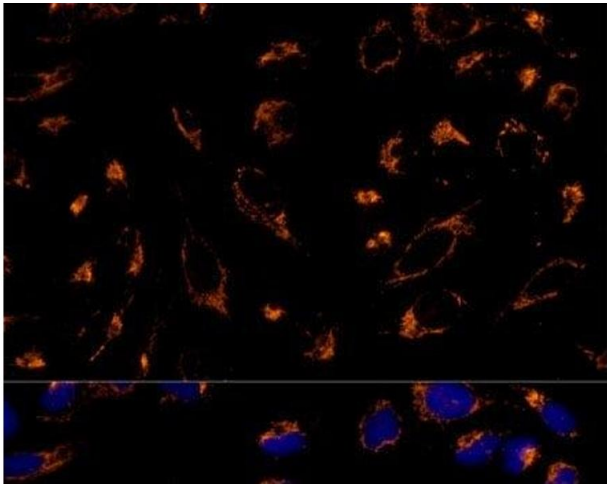
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3

Preservative: Sodium azide

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

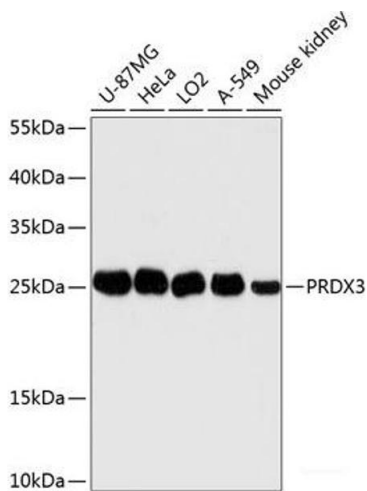
Storage: -20 °C

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



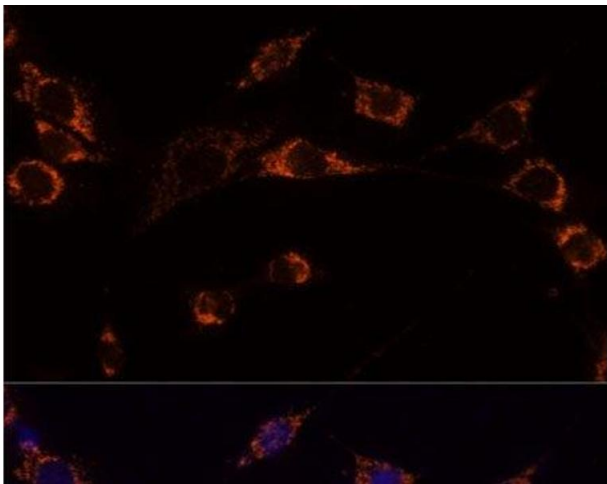
Immunofluorescence

Image 1. Immunofluorescence analysis of U-2 OS cells using PRDX3 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines using PRDX3 Polyclonal Antibody at dilution of 1:3000.



Immunofluorescence

Image 3. Immunofluorescence analysis of NIH-3T3 cells using PRDX3 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.