

Datasheet for ABIN5557512
anti-Peroxiredoxin 1 antibody[Go to Product page](#)

4 Images

Overview

Quantity:	100 µL
Target:	Peroxiredoxin 1 (PRDX1)
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This Peroxiredoxin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	Recombinant human Peroxiredoxin 1 protein, full length.
Clone:	7A1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	Peroxiredoxin 1 (PRDX1)
Alternative Name:	Peroxiredoxin 1 (PRDX1 Products)
Background:	Synonyms: PAG, PAGA, PAGB, PRX1, PRXI, MSP23, NKEFA, TDPX2, NKEF-A, Peroxiredoxin-1,

Target Details

Natural killer cell-enhancing factor A, Proliferation-associated gene protein, Thioredoxin peroxidase 2, Thioredoxin-dependent peroxide reductase 2, PRDX1

Background: Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation (By similarity).

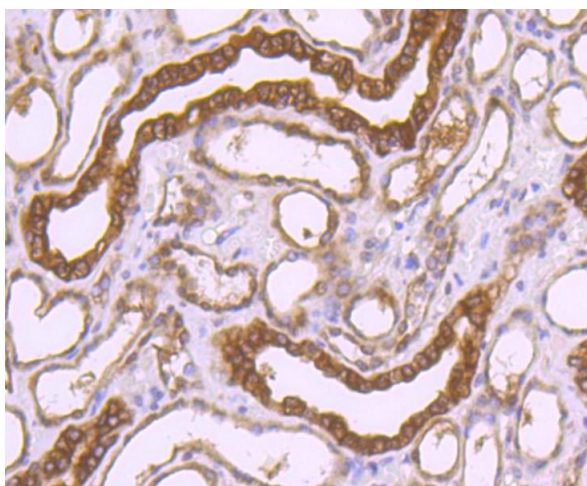
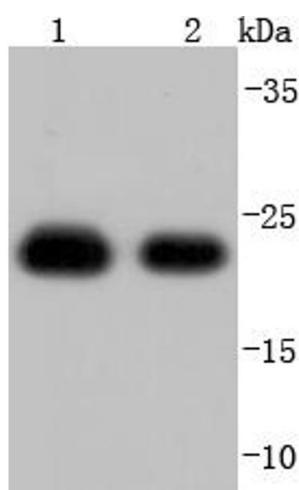
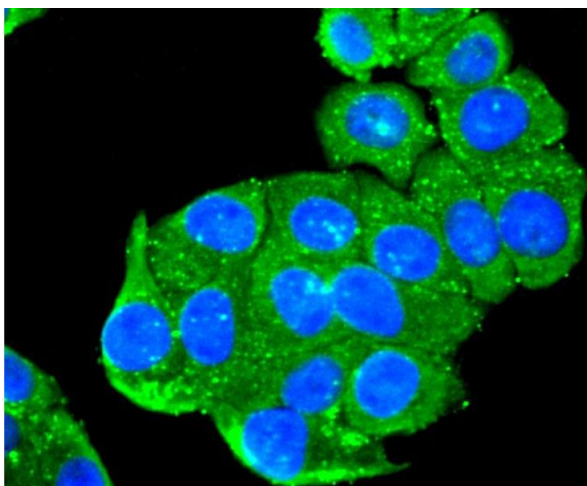
Gene ID:	5052
UniProt:	Q06830
Pathways:	p53 Signaling , EGFR Signaling Pathway , CXCR4-mediated Signaling Events

Application Details

Application Notes:	WB 1:300-5000 IHC-P 1:200-400 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months



Immunofluorescence (Cultured Cells)

Image 1. HepG2 cells were fixed with paraformaldehyde, permeabilized with 0.25% Triton X-100 in PBS, blocked with 10% normal goat serum in PBS, and stained with Peroxiredoxin 1 (7A1) Monoclonal Antibody at 1:200 in blocking solution. Slides were incubated overnight at 4°C followed by FITC conjugated secondary antibody incubation and DAPI staining of the nucleus.

Western Blotting

Image 2. Lane 1: HeLa, Lane 2: A431 lysate probed with Peroxiredoxin 1 (7A1) Monoclonal Antibody, Unconjugated at 1:1000 overnight at 4°C. Followed by a conjugated secondary antibody.

Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Paraformaldehyde-fixed, paraffin embedded human liver carcinoma, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal serum) at 37°C for 20min, Antibody incubation with Peroxiredoxin 1 (7A1) Monoclonal Antibody at 1:50 overnight at 4°C, followed by a conjugated secondary and DAB staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN5557512.