

# Peroxiredoxin 1 Rabbit mAb

Catalog No: #49322

Package Size: #49322-1 50ul #49322-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

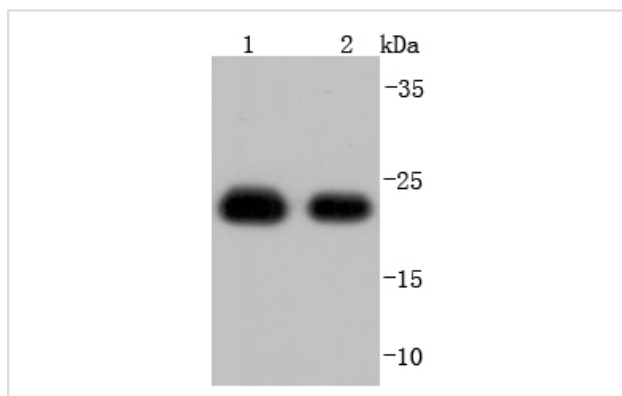
## Description

Product Name	Peroxiredoxin 1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JF0945
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu, Ms
Immunogen Description	recombinant protein
Other Names	Heme binding 23 kDa protein antibody MSP23 antibody Natural killer cell-enhancing factor A antibody NKEF A antibody NKEF-A antibody NKEFA antibody OSF3 antibody Osteoblast specific factor 3 antibody PAG antibody Paga antibody PAGB antibody Peroxiredoxin-1 antibody PRDX1 antibody PRDX1_HUMAN antibody Proliferation associated gene A antibody Proliferation-associated gene protein antibody PRX1 antibody Prx1 antibody TDPX2 antibody Thioredoxin peroxidase 2 antibody Thioredoxin-dependent peroxide reductase 2 antibody
Accession No.	Swiss-Prot#:Q06830
Uniprot	Q06830
GeneID	5052;
Calculated MW	22 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

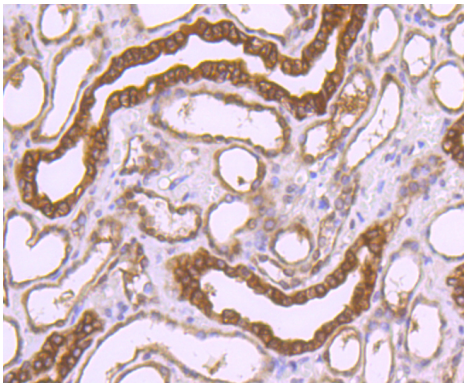
## Application Details

WB: 1:1,000-5,000 IHC: 1:50-1:200 ICC: 1:100-1:500 FC: 1:50-1:100

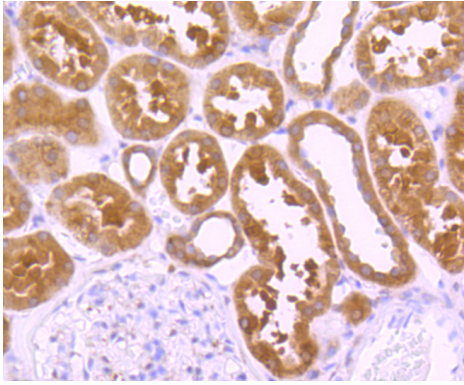
## Images



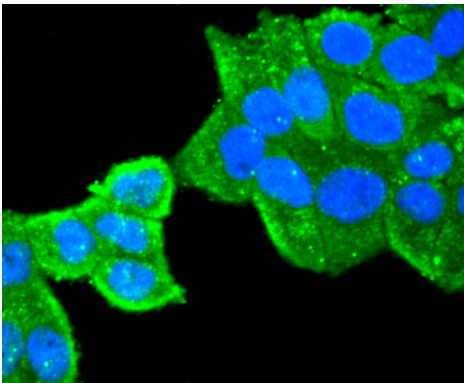
Western blot analysis of Peroxiredoxin 1 on different lysates using anti-Peroxiredoxin 1 antibody at 1/1,000 dilution.  
Positive control: Lane 1: Hela Lane 2: A431



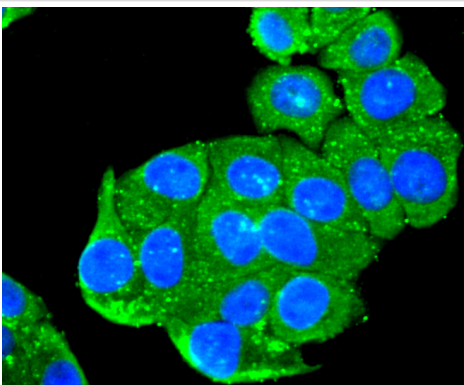
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Peroxiredoxin 1 antibody. Counter stained with hematoxylin.



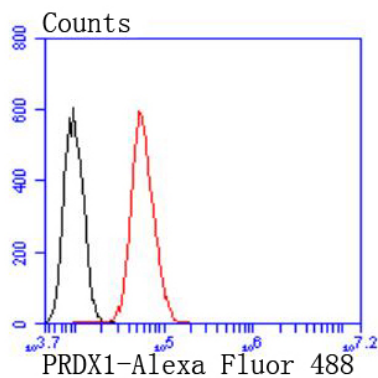
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Peroxiredoxin 1 antibody. Counter stained with hematoxylin.



ICC staining Peroxiredoxin 1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Peroxiredoxin 1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with Peroxiredoxin 1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

## Background

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The peroxiredoxin (PRX) family comprises six antioxidant proteins, PRX I, II, III, IV, V and VI, which protect cells from reactive oxygen species (ROS) by preventing the metal-catalyzed oxidation of enzymes. The PRX proteins primarily utilize thioredoxin as the electron donor for antioxidation, although they are fairly promiscuous with regard to the hydroperoxide substrate. In addition to protection from ROS, peroxiredoxins are also involved in cell proliferation, differentiation and gene expression. PRX I, II, IV and VI show diffuse cytoplasmic localization, while PRX III and V exhibit distinct mitochondrial localization. The human PRX I gene encodes a protein that is expressed in several tissues, including liver, kidney, testis, lung and nervous system. PRX II is expressed in testis, while PRX III shows expression in lung. PRX I, II and III are overexpressed in breast cancer and may be involved in its development or progression. Upregulated protein levels of PRX I and II in Alzheimer's disease (AD) and Down syndrome (DS) indicate the involvement of PRX I and II in their pathogenesis. The human PRX IV gene is abundantly expressed in many tissues.

## References

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Note: This product is for in vitro research use only