

Peroxiredoxin 3 Rabbit mAb

Catalog No: #49595

Package Size: #49595-1 50ul #49595-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

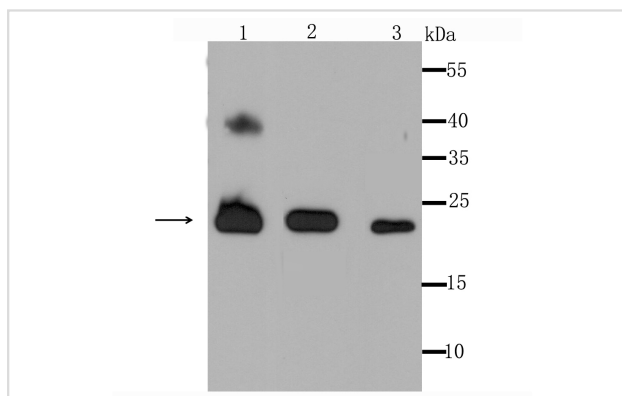
Description

Product Name	Peroxiredoxin 3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JA53-21
Purification	ProA affinity purified
Applications	WB, ICC, IHC, IP, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	Antioxidant protein 1 antibody AOP 1 antibody AOP-1 antibody AOP1 antibody HBC189 antibody MER5 antibody MGC104387 antibody MGC24293 antibody mitochondrial antibody peroxiredoxin 3 antibody Peroxiredoxin III antibody Peroxiredoxin-3 antibody PRDX3 antibody PRDX3_HUMAN antibody PRO1748 antibody Protein MER5 homolog antibody PRX III antibody Prx-III antibody PRX3 antibody SP 22 antibody SP-22 antibody SP22 antibody Thioredoxin dependent peroxide reductase mitochondrial antibody Thioredoxin-dependent peroxide reductase antibody
Accession No.	Swiss-Prot#:P30048
Uniprot	P30048
GeneID	10935;
Calculated MW	24 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

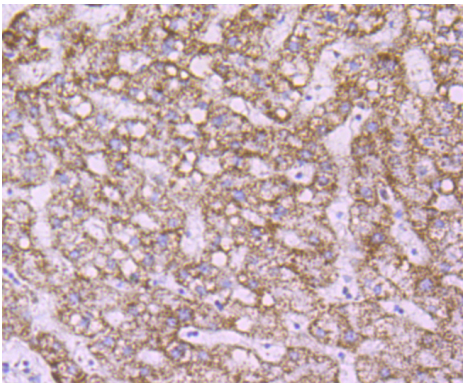
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

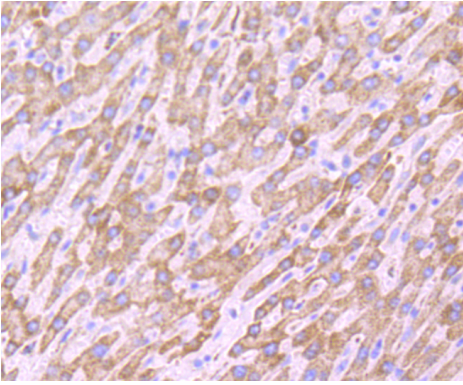
Images



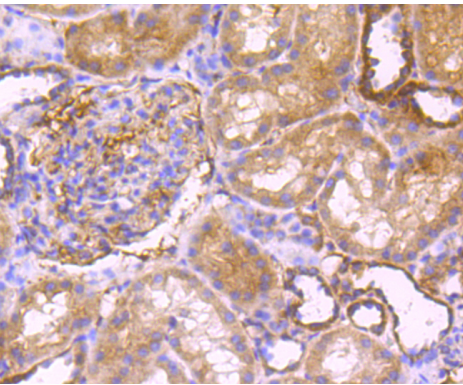
Western blot analysis of Peroxiredoxin 3 on different cell lysate using anti-Peroxiredoxin 3 antibody at 1/1,000 dilution.
 Positive control $\Omega\frac{1}{2}\Omega\frac{1}{2}$
 Lane1: Human liver
 Lane2: MCF-7
 Lane3: A431



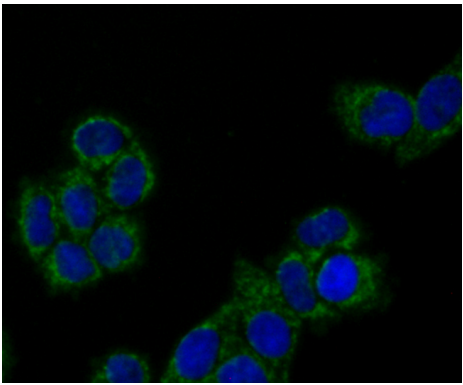
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti- Peroxiredoxin 3 antibody. Counter stained with hematoxylin.



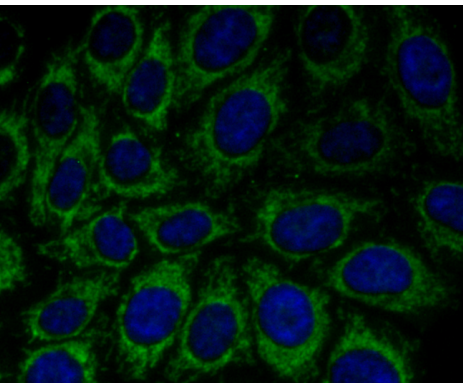
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti- Peroxiredoxin 3 antibody. Counter stained with hematoxylin.



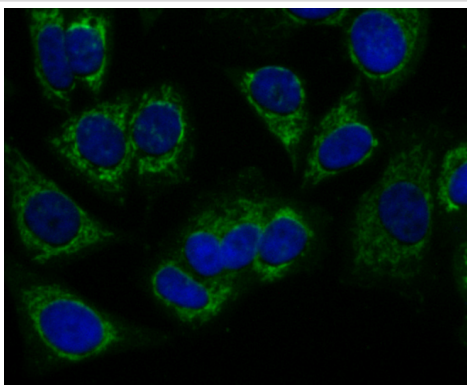
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti- Peroxiredoxin 3 antibody. Counter stained with hematoxylin.



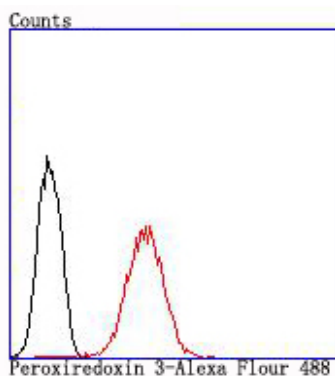
ICC staining Peroxiredoxin 3 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Peroxiredoxin 3 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Peroxiredoxin 3 in MCF-7 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 MCF-7 cells with Peroxiredoxin 3 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Background

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 antioxidant, 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

Note: This product is for in vitro research use only