

Rabbit anti-Human Peroxiredoxin 3 Monoclonal Antibody | anti-PRDX3 antibody

Peroxiredoxin 3 Antibody

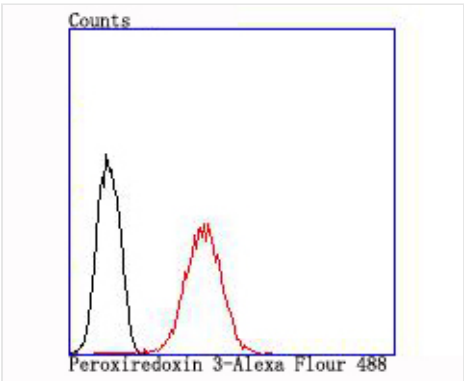
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30363	Rabbit	Human	Western Blot, Immunocytochemistry, Immunohistochemistry, Immunoprecipitation, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

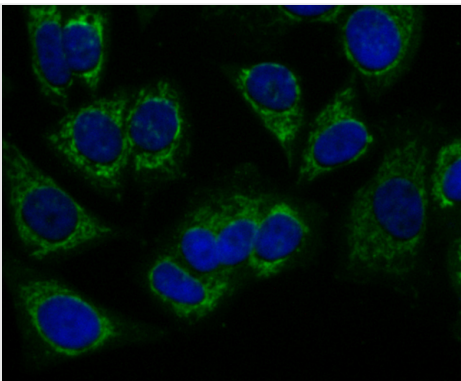
Peroxiredoxin 3; Monoclonal Antibody; Peroxiredoxin 3 Antibody; Antioxidant protein 1 antibody; AOP 1 antibody; AOP-1 antibody; AOP1 antibody; HBC189 antibody; MER5 antibody; MGC104387 antibody; MGC24293 antibody; mitochondrial antibody; peroxiredoxin 3 antibody; Peroxiredoxin III antibody; Peroxiredoxin-3 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; anti-PRDX3 antibody

PRODUCT SPECIFICATIONS

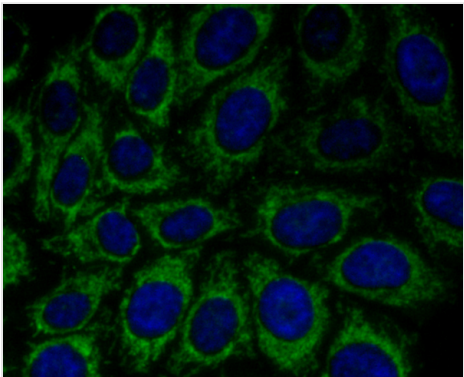
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Clone Number	JA53-21
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-PRDX3 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.



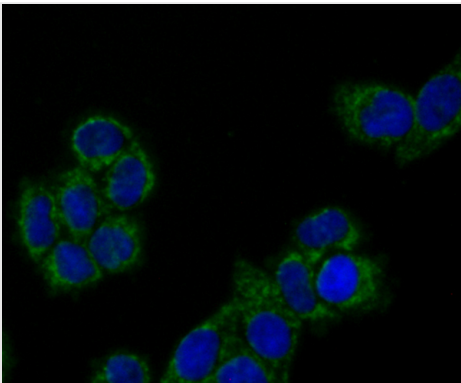
FCM (Flow Cytometry)
Flow cytometric analysis of MCF-7 cells with Peroxiredoxin 3 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).



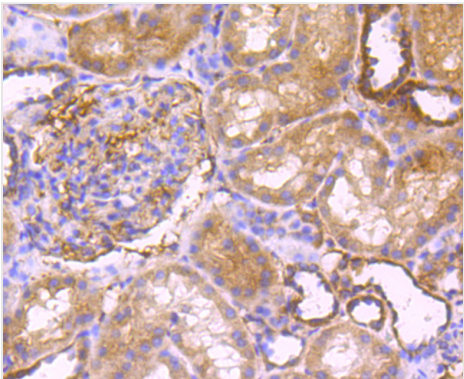
ICC (Immunocytochemistry)
ICC staining Peroxiredoxin 3 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



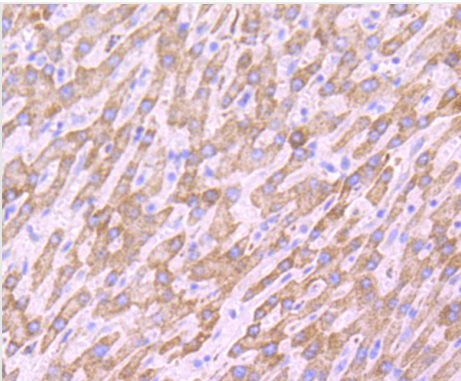
ICC (Immunocytochemistry)
ICC staining Peroxiredoxin 3 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC (Immunocytochemistry)
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.



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



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

ADDITIONAL INFORMATION

Related Product Information for anti-PRDX3 antibody	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.
Product Categories/Family for anti-PRDX3 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	2507171
NCBI GeneID	10935
UniProt Accession #	P30048; P35690; Q0D2H1; Q13776; Q5T5V2; Q96HK4; B2R7Z0; D3DRC9; E9PH29
Molecular Weight	256
NCBI Official Full Name	Thioredoxin-dependent peroxide reductase, mitochondrial
NCBI Official Synonym Full Names	peroxiredoxin 3
NCBI Official Symbol	PRDX3
NCBI Official Synonym Symbols	AOP1; MER5; AOP-1; SP-22; HBC189; PRO1748; prx-III
NCBI Protein Information	thioredoxin-dependent peroxide reductase, mitochondrial; peroxiredoxin-3; peroxiredoxin III; protein MER5 homolog; antioxidant protein 1
UniProt Protein Name	Thioredoxin-dependent peroxide reductase, mitochondrial
UniProt Gene Name	PRDX3
UniProt Synonym Gene Names	AOP1; AOP-1; Prx-III
UniProt Entry Name	PRDX3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/peroxiredoxin-3-antibody-clone-ja53-21-western-blot-immunocytochemistry-immunohistochemistry-immunoprecipitation-flow-cytometry-elisa/30363>