

Mouse anti-Human Peroxiredoxin3 Monoclonal Antibody | anti-PRDX3 antibody

Peroxiredoxin3 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48218	Mouse	Human	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

Peroxiredoxin3; Monoclonal Antibody; Peroxiredoxin3 antibody; Thioredoxin-dependent peroxide reductase mitochondrial; PRDX3; PRX III; Antioxidant protein 1 (AOP-1); Peroxiredoxin 3; Thioredoxin-dependent peroxide reductase; mitochondrial Antioxidant Protein 1; AOP1; MER5; PRX3; SP22; Peroxiredoxin-3; anti-PRDX3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG3, k
Clone Number	AT1F8
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	256
Applicable Applications for anti-PRDX3 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human Peroxiredoxin3 (63-256aa) purified from E. coli
Clone Note	Anti-human Peroxiredoxin3 mAb, clone AT1F8, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PRDX3 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of Peroxiredoxin3 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human Peroxiredoxin3 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The recombinant human PRDX3 protein (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Peroxiredoxin3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant protein Lane 2.: HeLa cell lysate Lane 3.: HepG2 cell lysate Lane 4.: TF1 cell lysate Lane 5.: U87MG cell lysate Lane 6.: Raji cell lysate Lane 7.: 293T cell lysate Lane 8.: Jurkat cell lysate Lane 9.: MCF7 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-PRDX3 antibody	Peroxiredoxin 3, also known as PRDX3, is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. Peroxiredoxin 3 is specifically localized in mitochondria and believed to play important roles in the regulation of cellular redox status by serving as a primary line of defense against H2O2 produced during respiration.
Product Categories/Family for anti-PRDX3 antibody	Neuroscience
References	Tsuji K., et al. (1995) Biochem J. 307 (2): 377-381.; Watabe S., et al. (1997) Eur J Biochem. 249 (1): 52-60.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	5802974
NCBI GeneID	10935
NCBI Accession #	NP_006784
NCBI GenBank Nucleotide #	NM_006793.4
UniProt Accession #	P30048; P35690; Q0D2H1; Q13776; Q5T5V2; Q96HK4; B2R7Z0; D3DRC9; E9PH29
Molecular Weight	25,839 Da
NCBI Official Full Name	thioredoxin-dependent peroxide reductase, mitochondrial isoform a
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
UniProt Protein Name	Thioredoxin-dependent peroxide reductase, mitochondrial
UniProt Gene Name	PRDX3
UniProt Synonym Gene Names	AOP1; AOP-1; Prx-III

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/peroxiredoxin3-antibody-clone-at1f8-immunofluorescence-immunocytochemistry-western-blot-elisa/48218>