

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

PRDX3 Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62306	Mouse	Human	Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot

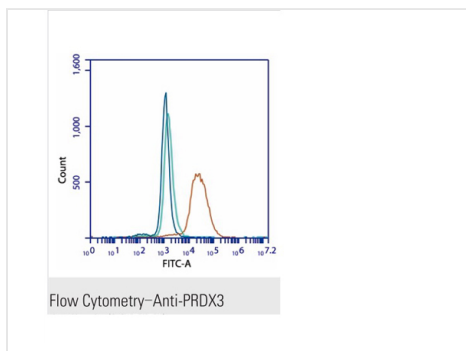
PRODUCT SYNONYMS

PRDX3; Monoclonal Antibody; PRDX3 Mouse mAb; anti-oxidant protein 1; antioxidant protein; Antioxidant protein 1; AOP-1; HBC189; mitochondrial thioredoxin dependent peroxide reductase; mitochondrial Trx dependent peroxide reductase; Peroiredoxin-3; Peroxiredoxin III; Peroxiredoxin-3; Protein MER5; Protein MER5 homolog; PRX III; PRX-3; Prx-III; Prx3; Thioredoxin-dependent peroxide reductase; mitochondrial; AOP1; AW822249; D0Tohi1; Ef2l; MER5; PRO1748; prx-III; SP-22; SP22; TDXM; anti-PRDX3 antibody

PRODUCT SPECIFICATIONS

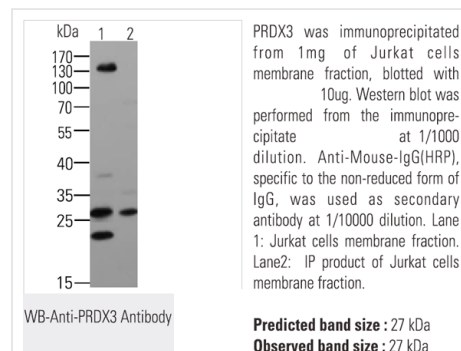
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Sequence Length	198
Applicable Applications for anti-PRDX3 antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot)
Source Note	This monoclonal antibody is produced by immunizing mice with a sythetic peptide(KLH coupled)corresponding to amino-terminal residues of human PRDX3
Preparation and Storage	Store at -20 degree C. Stable for one year from the date of shipment.

IMAGES



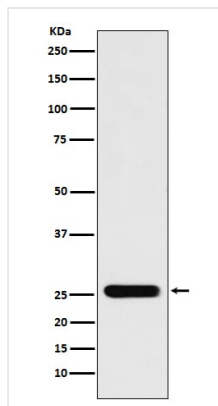
FCM/FACS (Flow Cytometry)

Flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling PRDX3 with M25079 at 1/200 dilution (red) compared with a mouse monoclonal IgG isotype control (blue) and an unlabelled control (cells without incubation with primary antibody, green). Goat anti-mouse IgG (FITC) at 1/300 dilution was used as the secondary antibody.



IP (Immunoprecipitation)

PRDX3 was immunoprecipitated from 1mg of Jurkat cells membrane fraction, blotted with M25079 of 10 ug. Western blot was performed from the immunoprecipitate using M25079 at 1/1000 dilution. Anti-Mouse-IgG(HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/10000 dilution. Lane 1: Jurkat cells membrane fraction. Lane2: IP product of Jurkat cells membrane fraction. Predicted band size : 27 kDa Observed band size : 27 kDa Blocking and dilution buffer and concentration: 5% milk/TBST.



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-PRDX3 antibody	This gene encodes a mitochondrial protein with antioxidant function. The protein is similar to the C22 subunit of Salmonella typhimurium alkylhydroperoxide reductase, and it can rescue bacterial resistance to alkylhydroperoxide in E. coli that lack the C22 subunit. The human and mouse genes are highly conserved, and they map to the regions syntenic between mouse and human chromosomes. Sequence comparisons with recently cloned mammalian homologs suggest that these genes consist of a family that is responsible for the regulation of cellular proliferation, differentiation and antioxidant functions. This family member can protect cells from oxidative stress, and it can promote cell survival in prostate cancer. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1, 3, 13 and 22.
Product Categories/Family for anti-PRDX3 antibody	Cell Marker; Subcellular Marker; Membrane

NCBI AND UNIPROT INFORMATION

NCBI GI #	695917253
NCBI GeneID	10935
NCBI Accession #	NP_001289201.1
NCBI GenBank Nucleotide #	NM_001302272.1
UniProt Accession #	P30048; P35690; Q0D2H1; Q13776; Q5T5V2; Q96HK4; B2R7Z0; D3DRC9; E9PH29
Molecular Weight	Predicted MW: 27kDa
NCBI Official Full Name	thioredoxin-dependent peroxide reductase, mitochondrial isoform c
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.