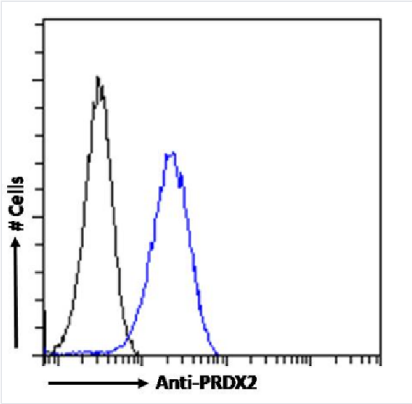
PRDX2 Antibody – Rabbit Monoclonal

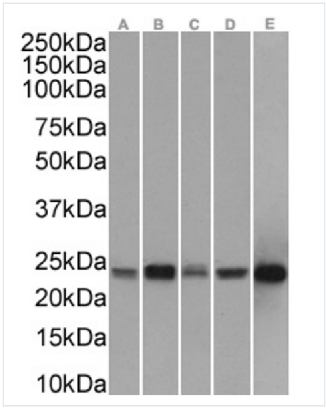
PRODUCT OVERVIEW

Product Name	PRDX2, Monoclonal Antibody
Full Product Name	Anti-PRDX2 [SAIC-34B-124]
Product Gene Name	anti-PRDX2 antibody
Product Synonym Names	Peroxiredoxin-2;, NKEFB; TDPX1
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	SAIC-34B-124
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% Proclin 300.
Purity/Purification	Purified antibody. Protein A affinity purified
Concentration	1mg/ml (lot specific)
Specificity	Recognizes human PRDX2.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.
Molecular Weight	21,892 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (12907634..12912694, complement). Location: 19p13.2
OMIM	600538
3D Structure	ModBase 3D Structure for P32119
Animal-free Manufacturing Platform	The recombinant antibody is manufactured using a recombinant, mammalian HEK293-based expression platform. The manufacturing platform is animal-free and animal component-free.
PMID	25512614
Product Categories/Family for anti-PRDX2 antibody	immunoMRM
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PRDX2 antibody	ELISA (EIA), Western Blot (WB), immuno Multiple Reaction Monitoring (immuno-MRM)
Application Notes for anti-PRDX2 antibody	Original data characterizing this antibody may be found here.
Related Product Information for anti-PRDX2 antibody	Recombinant monoclonal antibody to PRDX2. Recombinant Platform with variable regions (i.e. specificity) from the B-cell cDNA library SAIC-34B-124. Peptide "LSEDYGVLK", derived from the cellular redox regulator Peroxiredoxin-2, conjugated to KLH.
Product References and Citations for anti-PRDX2 antibody	Schoenherr et al. Anti-peptide monoclonal antibodies generated for immuno-multiple reaction monitoring-mass spectrometry assays have a high probability of supporting Western blot and ELISA. Mol Cell Proteomics Note on publication: Describes generation a panel of recombinant antibodies using synthetic peptides of human proteins as well as validation using ELISA and multiple reaction monitoring-mass spectrometry.

Other Notes	Small volumes of anti-PRDX2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PRDX2 purchase	MBS488561 is an antibody targeting PRDX2. Also known as Anti-PRDX2 [SAIC-34B-124]. Reactive in Human. Host: Rabbit.



Flow Cytometry (FC/FACS) of anti-PRDX2 antibody
Flow cytometry using the Anti-PRDX2 antibody SAIC-34B-124 (MBS488561). Paraformaldehyde fixed HeLa cells permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody (MBS488149; isotype control, black line) or the rabbit IgG version of SAIC-34B-124 (, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



Western Blot (WB) of anti-PRDX2 antibody
Western Blot using anti-PRDX2 antibody SAIC-34B-124 (MBS488561). HepG2(A) (0.003ug/ml), HeLa(B) (0.003ug/ml), MCF7(C) (0.003ug/ml), K562(D) (0.003ug/ml) and LNCaP (E) (0.001ug/ml) cell lysates (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of SAIC-34B-124 (), before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDX2. It may not necessarily be applicable to this product.

NCBI GI #	49456535
NCBI GeneID	7001
NCBI Accession #	CAG46588.1
UniProt Primary Accession #	P32119
UniProt Secondary Accession #	P31945; P32118; P35701; Q6FHG4; Q92763; Q9UC23; A8K0C0
UniProt Related Accession #	P32119
NCBI Official Full Name	PRDX2
NCBI Official Synonym Full Names	peroxiredoxin 2
NCBI Official Symbol	PRDX2
NCBI Official Synonym Symbols	PRP; TSA; PRX2; PTX1; TPX1; NKEFB; PRXII; TDPX1; NKEF-B
UniProt Protein Name	Peroxiredoxin-2
UniProt Synonym Protein Names	Natural killer cell-enhancing factor B; NKEF-B; PRP; Thiol-specific antioxidant protein; TSA; Thioredoxin peroxidase 1; Thioredoxin-dependent peroxide reductase 1
Protein Family	Peroxiredoxin
UniProt Gene Name	PRDX2
UniProt Synonym Gene Names	NKEFB; TDPX1; NKEF-B; TSA
UniProt Entry Name	PRDX2_HUMAN
NCBI Protein Information	peroxiredoxin-2; torin; thioredoxin peroxidase 1; thiol-specific antioxidant 1; natural killer cell-enhancing factor B; thioredoxin-dependent peroxide reductase 1

NCBI Summary for PRDX2	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13. [provided by RefSeq, Mar 2013]
UniProt Comments for PRDX2	PRDX2: a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system but not from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2). May have a proliferative effect and play a role in cancer development or progression. Three splice-variant isoforms have been identified. Protein type: EC 1.11.1.15; Oxidoreductase Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: cytoplasm; cytosol Molecular Function: antioxidant activity; thioredoxin peroxidase activity Biological Process: regulation of apoptosis; response to reactive oxygen species; removal of superoxide radicals; hydrogen peroxide catabolic process; negative regulation of neuron apoptosis; response to oxidative stress; negative regulation of apoptosis
Research Articles on PRDX2	**1.** Real-time PCR, western blot and immunohistochemistry showed that peroxiredoxin 2 was increased in pterygium compared to healthy conjunctiva.
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