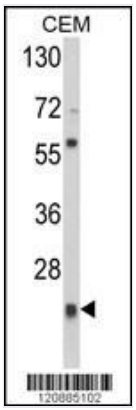
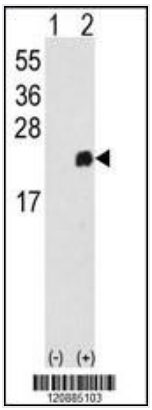
PRDX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

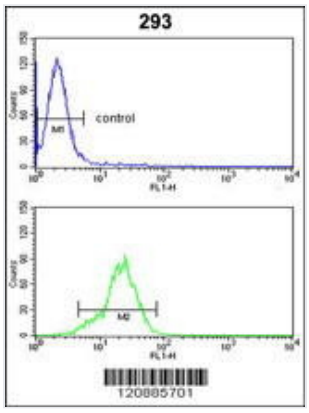
Product Name	PRDX1, Polyclonal Antibody
Full Product Name	PRDX1, ID (Peroxiredoxin-1, Thioredoxin Peroxidase 2, Thioredoxin-dependent Peroxide Reductase 2, Proliferation-associated Gene Protein, PAG, Natural Killer Cell-enhancing Factor A, NKEF-A, TDPX2, PAGB, PAGA) (MaxLight 550)
Product Gene Name	anti-PRDX1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human PRDX1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	22,110 Da
OMIM	176763
3D Structure	ModBase 3D Structure for Q06830
Immunogen	Synthetic peptide selected from the center region of human PRDX1 (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-PRDX1 antibody	Antibodies; Enzymes; Peroxiredoxin
Applications Tested/Suitable for anti-PRDX1 antibody	Western Blot (WB), FLISA
Application Notes for anti-PRDX1 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PRDX1 antibody	MBS6492709 is an antibody targeting PRDX1. Also known as PRDX1, ID (Peroxiredoxin-1, Thioredoxin Peroxidase 2, Thioredoxin-dependent Peroxide Reductase 2, Proliferation-associated Gene Protein, PAG, Natural Killer Cell-enhancing Factor A, NKEF-A, TDPX2, PAGB, PAGA) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PRDX1 antibody	1. Song, I.S., et.al., Carcinogenesis 30(7), 1106-1114 (2009).
Other Notes	Small volumes of anti-PRDX1 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.



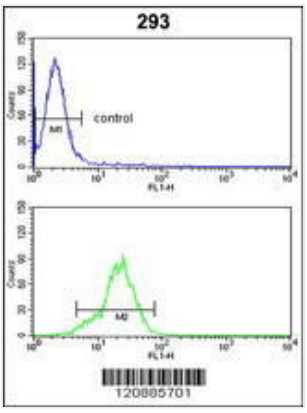
Western Blot (WB) of anti-PRDX1 antibody
Western blot analysis of PRDX1 Antibody (Center) in CEM cell line lysates (35ug/lane). PRDX1 (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-PRDX1 antibody
Western blot analysis of PRDX1 (arrow) using rabbit polyclonal PRDX1 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRDX1 gene (Lane 2).



Flow Cytometry (FC/FACS) of anti-PRDX1 antibody
PRDX1 Antibody (Center) flow cytometric analysis of 293 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunohistochemistry (IHC) of anti-PRDX1 antibody
PRDX1 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PRDX1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDX1. It may not necessarily be applicable to this product.

NCBI GI #	4505591
NCBI GeneID	5052
NCBI Accession #	NP_002565
UniProt Primary Accession #	Q06830
UniProt Secondary Accession #	P35703; Q2V576; Q5T154; Q5T155; B5BU26; D3DPZ8
UniProt Related Accession #	Q06830
GenBank Nucleotide #	NM_002574.3
NCBI Official Full Name	peroxiredoxin-1
NCBI Official Synonym Full Names	peroxiredoxin 1
NCBI Official Symbol	PRDX1
NCBI Official Synonym Symbols	PAG; PAGA; PAGB; PRX1; PRXI; MSP23; NKEFA; TDPX2; NKEF-A
UniProt Protein Name	Peroxiredoxin-1

UniProt Synonym Protein Names	Natural killer cell-enhancing factor A; NKEF-A; Proliferation-associated gene protein; PAG; Thioredoxin peroxidase 2; Thioredoxin-dependent peroxide reductase 2
Protein Family	Peroxiredoxin
UniProt Gene Name	PRDX1
UniProt Synonym Gene Names	PAGA; PAGB; TDPX2; NKEF-A; PAG
UniProt Entry Name	PRDX1_HUMAN
NCBI Protein Information	peroxiredoxin-1
NCBI Summary for PRDX1	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Four transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jan 2011]
UniProt Comments for PRDX1	PRDX1: 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. Protein type: Nuclear receptor co-regulator; Oxidoreductase; EC 1.11.1.15 Chromosomal Location of Human Ortholog: 1p34.1 Cellular Component: peroxisomal matrix; extracellular space; mitochondrial matrix; cytoplasm; nucleolus; melanosome; nucleus; cytosol Molecular Function: protein binding; peroxidase activity; protein homodimerization activity; thioredoxin peroxidase activity; heme binding Biological Process: cell proliferation; retinal homeostasis; erythrocyte homeostasis; regulation of stress-activated MAPK cascade; response to reactive oxygen species; removal of superoxide radicals; hydrogen peroxide catabolic process; natural killer cell mediated cytotoxicity; skeletal development; regulation of NF-kappaB import into nucleus
Research Articles on PRDX1	**1.** Prx1 might play an oncogenic role in tobacco-related oral squamous cell carcinoma and thus serve as a target for chemopreventive and therapeutic interventions.
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