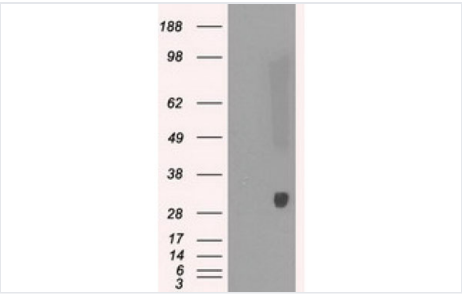
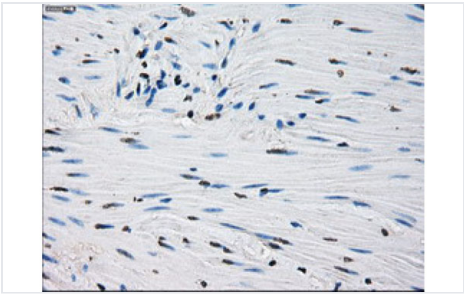
PRDX4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PRDX4, Monoclonal Antibody
Full Product Name	PRDX4 antibody
Product Gene Name	anti-PRDX4 antibody
Product Synonym Names	Monoclonal PRDX4; Anti-PRDX4; Peroxiredoxin 4; AOE37-2; Antioxidant enzyme AOE372; Peroxiredoxin IV; Thioredoxin peroxidase AO372; Thioredoxin-dependent peroxide reductase A0372; PRDX4; PRDX 4; PRDX-4
Clonality	Monoclonal
Isotype	IgG1
Clone Number	9A3
Host	Mouse
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purity/Purification	PRDX4 antibody was purified by affinity chromatography.
Concentration	500 ug-1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	30,540 Da
OMIM	300927
3D Structure	ModBase 3D Structure for Q13162
Cross-Reactivity	Human
Immunogen	PRDX4 antibody was raised in mouse using a full length recombinant protein of human PRDX4 (NP_006397) produced in HEK293T cells, as the immunogen.
Product Categories/Family for anti-PRDX4 antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-PRDX4 antibody	Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-PRDX4 antibody	IF: 1:100 IHC: 1:50 WB: 1:2000
Related Product Information for anti-PRDX4 antibody	MBS834009 is an antibody targeting PRDX4. Also known as PRDX4 antibody. Host: Mouse. Mouse monoclonal PRDX4 antibody
Other Notes	Small volumes of anti-PRDX4 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-PRDX4 antibody
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant PRDX4 protein (Right) or empty vector (Left) detected with PRDX4 antibody



Immunohistochemistry (IHC) of anti-PRDX4 antibody
Immunohistochemical analysis of PRDX4 protein in paraffin embedded Human colon tissue using PRDX4 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRDX4. It may not necessarily be applicable to this product.

NCBI GI #	5453549
NCBI GeneID	10549
NCBI Accession #	NP_006397
UniProt Primary Accession #	Q13162
UniProt Secondary Accession #	Q6FHT3
UniProt Related Accession #	Q13162
GenBank Nucleotide #	NM_006406.1
NCBI Official Full Name	peroxiredoxin-4
NCBI Official Synonym Full Names	peroxiredoxin 4
NCBI Official Symbol	PRDX4
NCBI Official Synonym Symbols	PRX-4; AOE372; AOE37-2; HEL-S-97n
UniProt Protein Name	Peroxiredoxin-4
UniProt Synonym Protein Names	Antioxidant enzyme AOE372; AOE37-2; Peroxiredoxin IV; Prx-IV; Thioredoxin peroxidase AO372; Thioredoxin-dependent peroxide reductase A0372
Protein Family	Peroxiredoxin
UniProt Gene Name	PRDX4
UniProt Synonym Gene Names	AOE37-2; Prx-IV
UniProt Entry Name	PRDX4_HUMAN
NCBI Protein Information	peroxiredoxin-4
NCBI Summary for PRDX4	The protein encoded by this gene is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB. [provided by RefSeq, Jul 2008]

UniProt Comments for PRDX4	PRDX4: Probably involved in redox regulation of the cell. Regulates the activation of NF-kappa-B in the cytosol by a modulation of I-kappa-B-alpha phosphorylation. Belongs to the AhpC/TSA family. Protein type: Secreted; Oxidoreductase; Secreted, signal peptide; EC 1.11.1.15; Mitochondrial Chromosomal Location of Human Ortholog: Xp22.11 Cellular Component: extracellular space; smooth endoplasmic reticulum; mitochondrion; nucleus; cytosol Molecular Function: protein binding; protein homodimerization activity; thioredoxin peroxidase activity Biological Process: protein maturation via protein folding; extracellular matrix organization and biogenesis; 4-hydroxyproline metabolic process; cell redox homeostasis; male gonad development; spermatogenesis; I-kappaB phosphorylation
Research Articles on PRDX4	**1.** Findings suggest that elevated serum Prx4 levels are associated with a higher risk of incident type 2 diabetes
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