PROX-1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PROX-1, Polyclonal Antibody
Full Product Name	PROX-1-S514 Rabbit pAb
Product Gene Name	anti-PROX-1 antibody
Product Synonym Names	PROX1
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.09% (W/V) Sodium Azide, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	83; 83kDa
OMIM	601546
3D Structure	ModBase 3D Structure for Q92786
Immunogen	This PROX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 492-520 amino acids from human PROX1.
Cellular Localization	Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PROX-1 antibody	Western Blot (WB)
Application Notes for anti-PROX-1 antibody	WB: 1:2000
Related Product Information for anti-PROX-1 antibody	Transcription factor involved in developmental processes such as cell fate determination, gene transcriptional regulation and progenitor cell regulation in a number of organs. Plays a critical role in embryonic development and functions as a key regulatory protein in neurogenesis and the development of the heart, eye lens, liver, pancreas and the lymphatic system. Involved in the regulation of the circadian rhythm. Represses: transcription of the retinoid-related orphan receptor RORG, transcriptional activator activity of RORA and RORG and the expression of RORA/G-target genes including core clock components: ARNTL/BMAL1, NPAS2 and CRY1 and metabolic genes: AVPR1A and ELOVL3.
Other Notes	Small volumes of anti-PROX-1 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 PROX-1 purchase	MBS8559110 is an antibody targeting PROX-1. Also known as PROX-1-S514 Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PROX-1. It may not necessarily be applicable to this product.

NCBI GI #	85702224
NCBI GeneID	5629
NCBI Accession #	Q92786.2
UniProt Primary Accession #	Q92786
UniProt Related Accession #	Q92786
NCBI Official Full Name	Prospero homeobox protein 1
NCBI Official Synonym Full Names	prospero homeobox 1
NCBI Official Symbol	PROX1
UniProt Protein Name	Prospero homeobox protein 1
UniProt Synonym Protein Names	Homeobox prospero-like protein PROX1; PROX-1
Protein Family	Prospero homeobox protein
UniProt Gene Name	PROX1
UniProt Synonym Gene Names	PROX-1
UniProt Entry Name	PROX1_HUMAN
NCBI Protein Information	prospero homeobox protein 1
NCBI Summary for PROX-1	The protein encoded by this gene is a member of the homeobox transcription factor family. Members of this family contain a homeobox domain that consists of a 60-amino acid helix-turn-helix structure that binds DNA and RNA. The protein encoded by this gene is conserved across vertebrates and may play an essential role during development. Altered levels of this protein have been reported in cancers of different organs, such as colon, brain, blood, breast, pancreas, liver and esophagus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]
UniProt Comments for PROX-1	PROX1: May play a fundamental role in early development of CNS. May regulate gene expression and development of postmitotic undifferentiated young neurons. Belongs to the Prospero homeobox family. Protein type: DNA-binding; Transcription factor; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 1q41 Cellular Component: cytoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; ligand-dependent nuclear receptor binding; protein binding; DBD domain binding; DNA binding; LBD domain binding; transcription factor activity; transcription corepressor activity Biological Process: transcription from RNA polymerase II promoter; lens development in camera-type eye; circadian rhythm; neural tube development; positive regulation of cyclin-dependent protein kinase activity; ventricular cardiac myofibril development; muscle thin filament assembly; atrial cardiac muscle morphogenesis; positive regulation of transcription, DNA-dependent; cell fate determination; negative regulation of transcription from RNA polymerase II promoter; olfactory placode formation; negative regulation of cell proliferation; venous blood vessel morphogenesis; pancreas development; positive regulation of cell proliferation; lymphangiogenesis; ventricular cardiac muscle morphogenesis; kidney development; response to nutrient levels; dentate gyrus development; negative regulation of transcription factor activity; positive regulation of cell cycle; liver development; regulation of circadian rhythm; cerebellar granule cell differentiation; dorsal spinal cord development; negative regulation of viral genome replication; regulation of gene expression; otic placode formation; embryonic retina morphogenesis in camera-type eye; positive regulation of endothelial cell proliferation; optic placode formation involved in camera-type eye; positive regulation of transcription from RNA polymerase II promoter; brain development; negative regulation of transcription, DNA-dependent; retina morphogenesis in camera-type eye; lung development
Research Articles on PROX-1	**1.** mesenchymal stem cells inhibited the angiogenesis of HUVEC through miR-211 mediating the down-regulation of Prox1

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