PROX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PROX1, Polyclonal Antibody
Full Product Name	PROX1, ID (Prospero Homeobox Protein 1, Homeobox Prospero-like Protein PROX1, PROX-1) (MaxLight 650)
Product Gene Name	anti-PROX1 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 MaxLight650.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human PROX1.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	81kDa
OMIM	601546
3D Structure	ModBase 3D Structure for Q92786
Immunogen	Synthetic peptide selected from the center region of human PROX1 (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-PROX1 antibody	Antibodies; Transcription Factors; Homeobox (HOX)
Applications Tested/Suitable for anti-PROX1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-PROX1 antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-PROX1 antibody	MBS6495937 is an antibody targeting PROX1. Also known as PROX1, ID (Prospero Homeobox Protein 1, Homeobox Prospero-like Protein PROX1, PROX-1) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PROX1 antibody	1. Nagai, H., et al., Genes Chromosomes Cancer 38(1):13-21 (2003). 2. Dyer, M.A., et al., Nat. Genet. 34(1):53-58 (2003). 3. Hong, Y.K., et al., Dev. Dyn. 225(3):351-357 (2002). 4. Petrova, T.V., et al., EMBO J. 21(17):4593-4599 (2002). 5. Mouta Carreira, C., et al., Cancer Res. 61(22):8079-8084 (2001).
Other Notes	Small volumes of anti-PROX1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PROX1. It may not necessarily be applicable to this product.

NCBI GI #	21359846
NCBI GeneID	5629
NCBI Accession #	NP_002754
UniProt Primary Accession #	Q92786
UniProt Related Accession #	Q92786
GenBank Nucleotide #	NM_002763.4
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 PROX1	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 PROX1	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 PROX1	**1.** PROX1 expression was detected in gastric cancer tissues at various levels. PROX1 expression levels were positively correlated with cancer stage, N factor, lymphatic vascular invasion, and vascular invasion in patients with gastric cancer.
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