PROX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PROX1, Polyclonal Antibody
Full Product Name	PROX1 Polyclonal Antibody
Product Gene Name	anti-PROX1 antibody
Product Synonym Names	Prospero homeobox protein 1; Homeobox prospero-like protein PROX1; PROX-1; PROX1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	81
OMIM	601546
3D Structure	ModBase 3D Structure for Q92786
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PROX1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PROX1 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-PROX1 antibody	MBS8531470 is an antibody targeting PROX1. Also known as PROX1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.
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 #	397174762
NCBI GeneID	5629
NCBI Accession #	NP_001257545.1
UniProt Primary Accession #	Q92786
UniProt Secondary Accession #	Q5SW76; Q8TB91; A6NK29; A8K2B1
UniProt Related Accession #	Q92786
GenBank Nucleotide #	NM_001270616.1
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
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	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.
Research Articles on PROX1	**1.** PROX1 is a new prognostic biomarker for 1p19q non-codeleted high-grade astrocytomas that have progressed from pre-existing low-grade tumors and harbor IDH mutations.
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