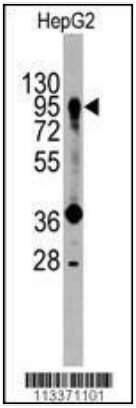
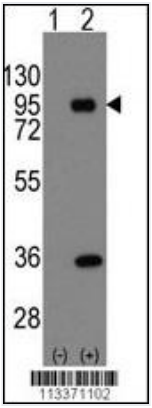
PROX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

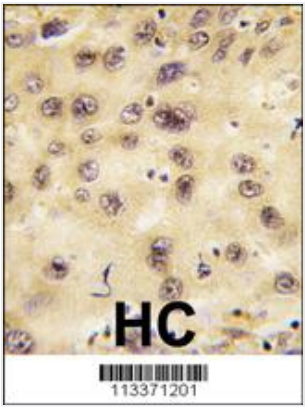
Product Name	PROX1, Polyclonal Antibody
Full Product Name	PROX1, ID (Prospero Homeobox Protein 1, Homeobox Prospero-like Protein PROX1, PROX-1) (Azide free) (HRP)
Product Gene Name	anti-PROX1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human PROX1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and 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	HRP
Note	Preservative Free
Product Categories/Family for anti-PROX1 antibody	Antibodies; Transcription Factors; Homeobox (HOX)
Applications Tested/Suitable for anti-PROX1 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-PROX1 antibody	IHC: 1:10-1:50 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-PROX1 antibody	MBS6495933 is an antibody targeting PROX1. Also known as PROX1, ID (Prospero Homeobox Protein 1, Homeobox Prospero-like Protein PROX1, PROX-1) (Azide free) (HRP). 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.



Western Blot (WB) of anti-PROX1 antibody
Western blot analysis of anti-PROX1 Antibody (Center) in HepG2 cell line lysates (35ug/lane). PROX1(arrow) was detected using the purified Pab.



Western Blot (WB) of anti-PROX1 antibody
Western blot analysis of PROX1 (arrow) using rabbit polyclonal PROX1 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PROX1 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-PROX1 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PROX1 antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/prox1/6495933