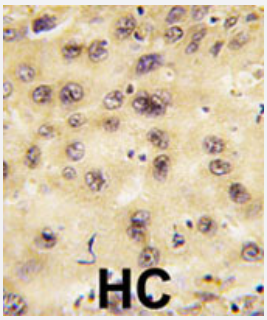
PROX1 polyclonal antibody

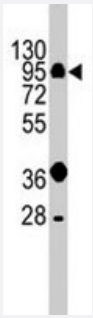
Catalog # PAB1920 Size 400 uL

Applications



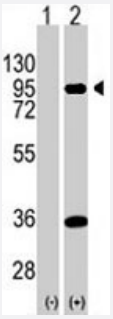
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with PROX1 polyclonal antibody (Cat # PAB1920), 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.



Western Blot (Cell lysate)

Western blot analysis of PROX1 polyclonal antibody (Cat # PAB1920) in HepG2 cell line lysates (35 ug/lane). PROX1 (arrow) was detected using the purified polyclonal antibody.



Western Blot (Transfected lysate)

Western blot analysis of PROX1 (arrow) using PROX1 polyclonal antibody (Cat # PAB1920). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PROX1 gene (Lane 2) (Origene Technologies).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PROX1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human PROX1.

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Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with PROX1 polyclonal antibody (Cat # PAB1920), 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.

- Western Blot (Cell lysate)

  Western blot analysis of PROX1 polyclonal antibody (Cat # PAB1920) in HepG2 cell line lysates (35 ug/lane). PROX1 (arrow) was detected using the purified polyclonal antibody.

- Western Blot (Transfected lysate)

  Western blot analysis of PROX1 (arrow) using PROX1 polyclonal antibody (Cat # PAB1920). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PROX1 gene (Lane 2) (Origene Technologies).

Gene Info — PROX1

Entrez GeneID	5629
Protein Accession#	NP_002754
Gene Name	PROX1
Gene Alias	-

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Gene Description	prospero homeobox 1
Omim ID	601546
Gene Ontology	Hyperlink
Other Designations	prospero-related homeobox 1

Publication Reference

- Mutations and aberrant DNA methylation of the PROX1 gene in hematologic malignancies.

  Nagai H, Li Y, Hatano S, Toshihito O, Yuge M, Ito E, Utsumi M, Saito H, Kinoshita T.

  Genes, Chromosomes & Cancer 2003 Sep; 38(1):13.

- Prox1 function controls progenitor cell proliferation and horizontal cell genesis in the mammalian retina.

  Dyer MA, Livesey FJ, Cepko CL, Oliver G.

  Nature Genetics 2003 May; 34(1):53.

  Application: IF, IHC-Fr, Mouse, Mouse retinal progenitor cells, Mouse retina

- Prox1 is a master control gene in the program specifying lymphatic endothelial cell fate.

  Hong YK, Harvey N, Noh YH, Schacht V, Hirakawa S, Detmar M, Oliver G.

  Developmental Dynamics 2002 Nov; 225(3):351.

  Application: IF, IHC-Fr, WB, Human, Mouse, Human dermal microvascular endothelial cells, Mouse skin

Disease

- Acquired Immunodeficiency Syndrome
- Birth Weight
- Diabetes Mellitus
- Disease Progression
- Genetic Predisposition to Disease
- HIV Infections
- Lymphedema

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