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Datasheet for ABIN388777 anti-PROX1 antibody (AA 185-214)

3 Images



Overview

Quantity:	400 µL
Target:	PROX1
Binding Specificity:	AA 185-214
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PROX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PROX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 185-214 amino acids from the Central region of human PROX1.
Clone:	RB13371
Isotype:	Ig Fraction
Predicted Reactivity:	Μ
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PROX1
Alternative Name:	PROX1 (PROX1 Products)

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Target Details	
Background:	The expression pattern of Prox1 suggests that it has a role in a variety of embryonic tissues,
	including lens. Prox mRNA is present in many different human tissues with lens demonstrating
	the highest level. Homozygous Prox1-null mice die at midgestation from multiple
	developmental defects, and a targeted effect on lens development has been reported. Prox1
	inactivation caused abnormal cellular proliferation, downregulated expression of the cell cycle
	inhibitors Cdkn1b and Cdkn1c, misexpression of E-cadherin, and excessive apoptosis.
	Consequently, mutant lens cells failed to polarize and elongate properly, resulting in a hollow
	lens. Prox1 is expressed in a subpopulation of endothelial cells that by budding and sprouting
	give rise to the lymphatic system. Prox1 appears to be a specific and required regulator of the
	development of the lymphatic system. Prox1 also has been documented to be required for
	hepatocyte migration in the mouse. Loss of Prox1 results in a smaller liver with a reduced
	population of clustered hepatocytes. The homeodomain protein Prox1 regulates the egress of
	progenitor cells from the cell cycle in the embryonic mouse retina. Cells lacking Prox1 are less
	likely to stop dividing, and ectopic expression of Prox1 forces progenitor cells to exit the cell
	cycle. Prox1 acts as a key participant in progenitor-cell proliferation and cell-fate determination
	in the vertebrate retina.
Molecular Weight:	83203

Molecular Weight:	83203
Gene ID:	5629
NCBI Accession:	NP_001257545, NP_002754
UniProt:	Q92786
Pathways:	Stem Cell Maintenance, Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	WB: 1:500. WB: 1:500. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

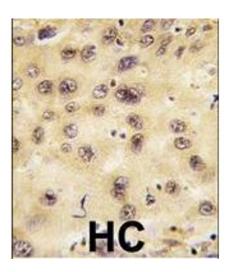
Liquid
Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Sodium azide
This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

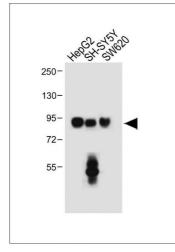
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Handling

Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Images





Immunohistochemistry (Paraffin-embedded Sections)

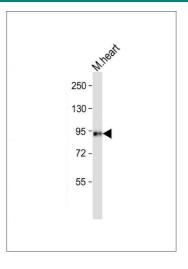
Image 1. Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PROX1 antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.

Western Blotting

Image 2. All lanes : Anti-PROX1 Antibody (Center) at 1:500 dilution Lane 1: HepG2 whole cell lysate Lane 2: SH-SY5Y, whole cell lysate Lane 3: S whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 83 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

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Images



Western Blotting

Image 3. Anti-PROX1 Antibody (Center) at 1:500 dilution + Mouse heart whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 83 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

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