

# PROX1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21201c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q92786</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB51404
<b>Calculated MW</b>	83203

## Additional Information

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<b>Gene ID</b>	5629
<b>Other Names</b>	Prospero homeobox protein 1, Homeobox prospero-like protein PROX1, PROX-1, PROX1
<b>Target/Specificity</b>	This PROX1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 444-478 amino acids from the Central region of human PROX1.
<b>Dilution</b>	WB~~1:2000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	PROX1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	PROX1
<b>Function</b>	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: BMAL1, NPAS2 and CRY1 and metabolic genes: AVPR1A and ELOVL3.

#### Cellular Location

Nucleus {ECO:0000250|UniProtKB:P48437}. Note=RORG promotes its nuclear localization. {ECO:0000250|UniProtKB:P48437}

#### Tissue Location

Most actively expressed in the developing lens. Detected also in embryonic brain, lung, liver and kidney. In adult, it is more abundant in heart and liver than in brain, skeletal muscle, kidney and pancreas.

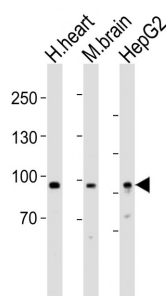
## Background

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## References

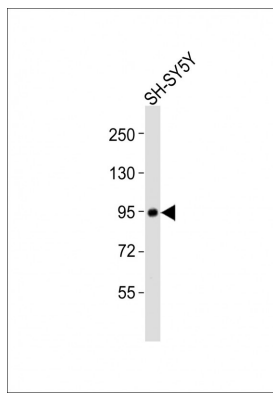
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## Images



All lanes : Anti-PROX1 Antibody (Center) at 1:1000 dilution  
Lane 1: human heart lysates Lane 2: mouse brain lysates  
Lane 3: HepG2 whole cell lysates 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.

Anti-PROX1 Antibody (Center) at 1:2000 dilution + SH-SY5Y whole cell lysates 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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.