

For Research Use Only

# PROX1 Polyclonal antibody

Catalog Number: 11067-2-AP

Featured Product

44 Publications



## Basic Information

<b>Catalog Number:</b> 11067-2-AP	<b>GenBank Accession Number:</b> BC024201	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 650 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5629	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q92786	
<b>Isotype:</b> IgG	<b>Full Name:</b> prospero homeobox 1	
<b>Immunogen Catalog Number:</b> AG1543	<b>Calculated MW:</b> 737 aa, 83 kDa	
	<b>Observed MW:</b> 90 kDa	

## Applications

<b>Tested Applications:</b> WB, IF, FC, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, human liver tissue, MCF-7 cells, HuH-7 cells IF : HepG2 cells,
<b>Cited Applications:</b> WB, IP, IF, FC, ChIP	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, goat, rat, mouse, pig	

## Background Information

PROX1, Prospero homeobox protein 1, belongs to the Prospero homeobox family and contain a Prospero-type homeobox DNA-binding domain. PROX1 plays a fundamental role in early development of CNS and regulates the expression of gene and development of postmitotic, undifferentiated neurons. Also, PROX1 is a required regulator of the development of the lymphatic system. This antibody is raised against part of C-terminal chain of human PROX1. The calculated molecular weight of PROX1 is 83 kDa, but with post-translational modifications, PROX1 is about 90 kDa. PROX1 can be detected double bands with sumo modifications (PMID: 18948102).

## Notable Publications

Author	Pubmed ID	Journal	Application
LinXi Cheng	34489520	Commun Biol	IF
Yoshiya Asano	28875528	J Tissue Eng Regen Med	
Juliana Falero-Perez	30372497	PLoS One	

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

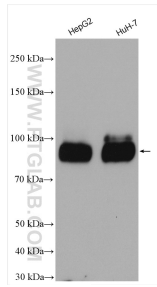
For technical support and original validation data for this product please contact:

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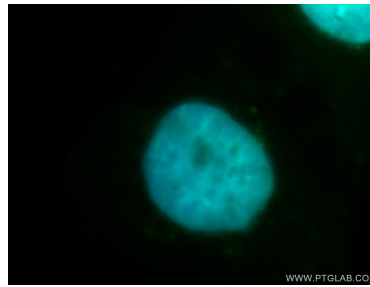
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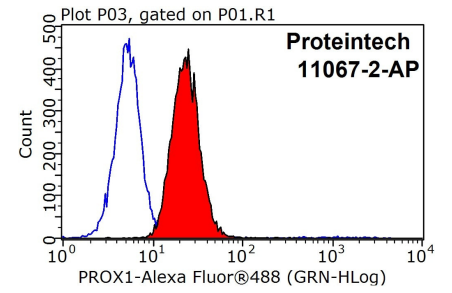
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11067-2-AP (PROX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using PROX1 antibody 11067-2-AP at 1:100 dilution and FITC-labeled donkey anti-rabbit IgG (green). Blue pseudocolor = DAPI (fluorescent DNA dye).



1X10<sup>6</sup> HepG2 cells were stained with 0.2ug PROX1 antibody (11067-2-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.