

For Research Use Only

# PROX1 Polyclonal antibody

Catalog Number: 11067-2-AP

Featured Product

52 Publications



## Basic Information

Catalog Number:

11067-2-AP

Concentration:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1543

GenBank Accession Number:

BC024201

GeneID (NCBI):

5629

UNIPROT ID:

Q92786

Full Name:

prospero homeobox 1

Calculated MW:

737 aa, 83 kDa

Observed MW:

90 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:10000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC: 1:200-1:800

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IF, IP, ChIP

Species Specificity:

human

Cited Species:

human, mouse, rat, pig, goat

Positive Controls:

WB : HepG2 cells, human liver tissue, MCF-7 cells, HuH-7 cells

IP : HepG2 cells,

IF/ICC : HuH-7 cells,

FC (Intra) : HepG2 cells,

## 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

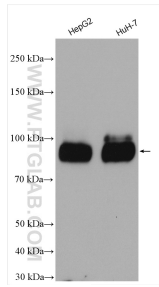
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

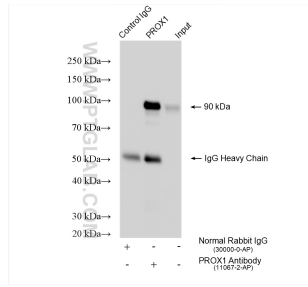
W: [ptgcn.com](http://ptgcn.com)

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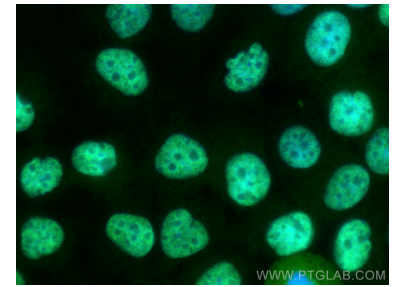
## Selected Validation Data



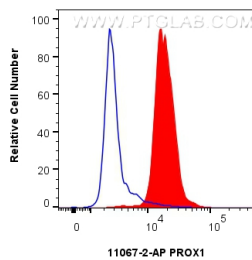
Various lysates were subjected to SDS PAGE followed by western blot with 11067-2-AP (PROX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-PROX1 (IP:11067-2-AP, 4ug; Detection:11067-2-AP 1:6000) with HepG2 cells lysate 1470 ug.



Immunofluorescent analysis of (4% PFA) fixed HuH-7 cells using PROX1 antibody (11067-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.25 ug PROX1 Polyclonal antibody (11067-2-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).