

For Research Use Only

# PROX1 Polyclonal antibody

Catalog Number: 11067-2-AP

Featured Product

51 Publications



## Basic Information

### Catalog Number:

11067-2-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

### 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

## 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,

## 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

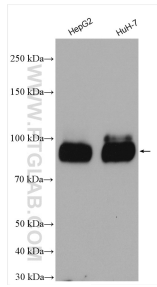
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

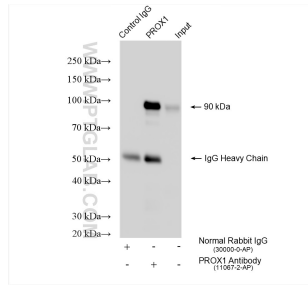
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

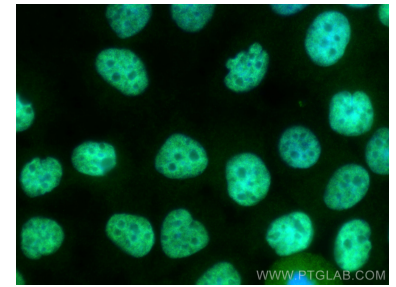
## Selected Validation Data



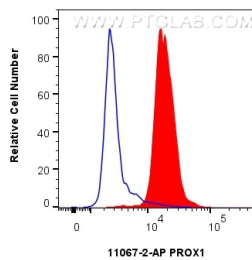
Various lysates were subjected to SDS PAGE followed by western blot with 11067-2-AP (PROX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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).