

For Research Use Only

# NR4A1 Polyclonal antibody

Catalog Number:12235-1-AP

Featured Product

37 Publications



## Basic Information

### Catalog Number:

12235-1-AP

### Size:

150ul , Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2875

### GenBank Accession Number:

BC016147

### GeneID (NCBI):

3164

### UNIPROT ID:

P22736

### Full Name:

nuclear receptor subfamily 4, group A, member 1

### Calculated MW:

598 aa, 64 kDa

### Observed MW:

64-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:500-1:2000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP, ELISA

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HeLa cells, COLO 320 cells, L02 cells, mouse liver tissue, rat liver tissue, PC-3 cells

IP : HeLa cells,

IHC : mouse colon tissue, human pancreas cancer tissue

IF/ICC : PC-3 cells,

## Background Information

NR4A1 is an orphan nuclear receptor that act concomitantly with NURR1 in regulating the expression of delay-early genes during liver regeneration. Also NR4A1 has linked not only to cell apoptosis but also proliferation in response to growth factor. It plays a role in caspase-independent cell death by activation of the ERK pathway and increased activity of MEF2 transcription factors. NR4A1 exists some isoforms with MW 65 and 34 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Huimin Gao	27679973	Sci Rep	WB
Bin Huang	30224829	Sci Rep	WB
Xiaobo Wei	26497037	Mol Neurobiol	WB, IF

## 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

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

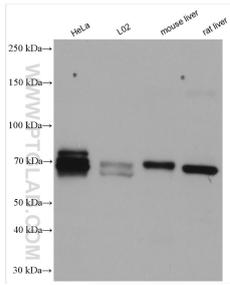
For technical support and original validation data for this product please contact:

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

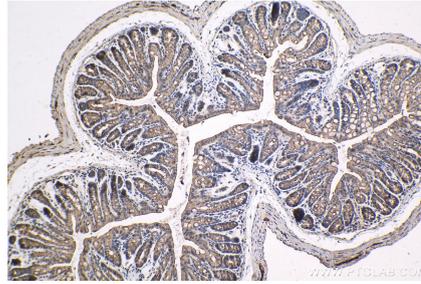
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

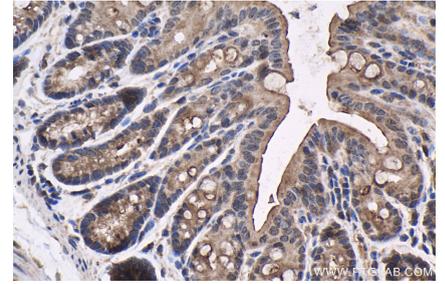
## Selected Validation Data



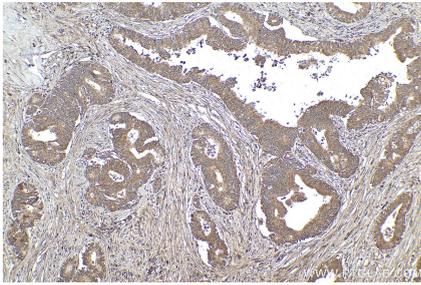
Various lysates were subjected to SDS PAGE followed by western blot with 12235-1-AP (NR4A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



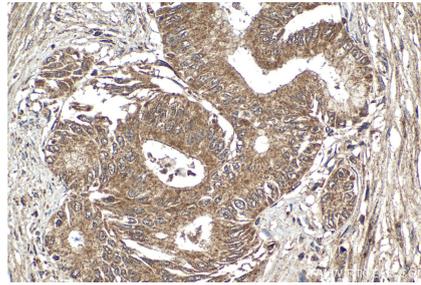
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 12235-1-AP (NR4A1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



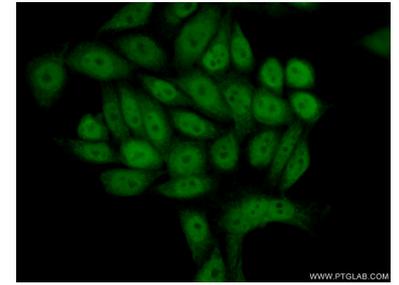
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 12235-1-AP (NR4A1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



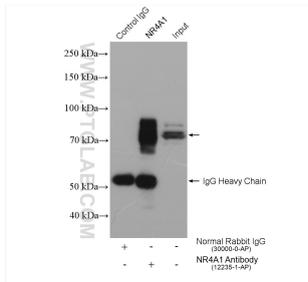
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 12235-1-AP (NR4A1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 12235-1-AP (NR4A1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (10% Formaldehyde) fixed PC-3 cells using 12235-1-AP (NR4A1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



IP result of anti-NR4A1 (IP:12235-1-AP, 4ug; Detection:12235-1-AP 1:1000) with HeLa cells lysate 1720 ug.