

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

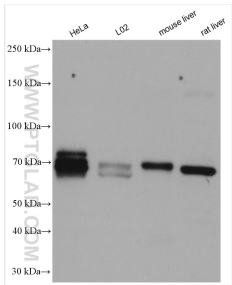
For technical support and original validation data for this product please contact:

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

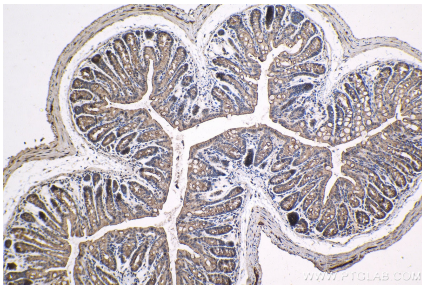
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

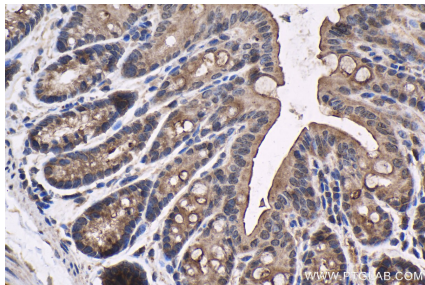
Selected Validation Data



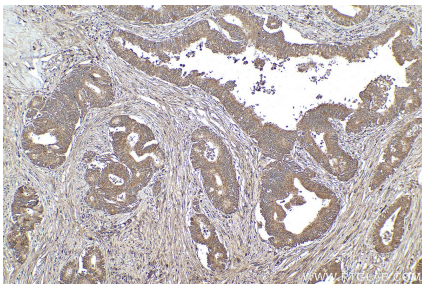
Various lysates were subjected to SDS PAGE followed by western blot with 12235-1-AP (NR4A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



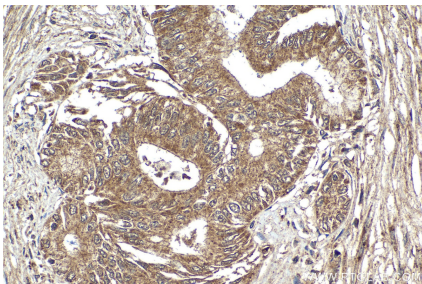
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 12235-1-AP (NR4A1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



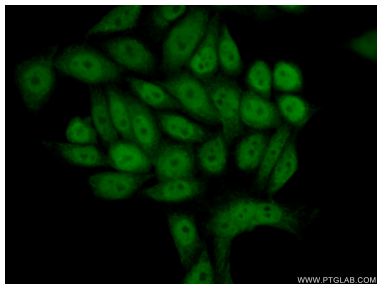
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 12235-1-AP (NR4A1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



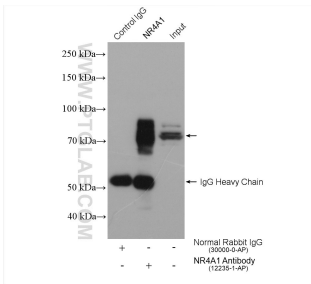
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 12235-1-AP (NR4A1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.