

For Research Use Only

# Neurotrophin 4 Polyclonal antibody

Catalog Number: 12297-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

12297-1-AP

### Size:

150ul, Concentration: 133 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2938

### GenBank Accession Number:

BC012421

### GeneID (NCBI):

4909

### Full Name:

neurotrophin 4

### Calculated MW:

210 aa, 22 kDa

### Observed MW:

70-80 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IF 1:10-1:100

## Applications

### Tested Applications:

IF, WB, ELISA

### Cited Applications:

CoIP, IF, IHC, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB : A431 cells, mouse brain tissue, rat brain tissue, rat cerebellum tissue, rat kidney tissue

IF : PC-3 cells, SH-SY5Y cells

## Background Information

Neurotrophin 4 (NT-4) belongs to the family of neurotrophic factors, and it interacts with the tyrosine kinase B (trkB) receptor. NT-4 has neuroprotective effects following cerebral ischemia. Its role might be similar to brain-derived neurotrophic factor (BDNF) because both interact with trkB. Exercise also improves neural function by increasing neurotrophic factors. NT-4 exists in two forms, either as a dimer (80 kDa) or as a monomer (40-47 kDa) (PMID: 23526925).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhou Yang	31190895	Onco Targets Ther	WB
Zhou Yang	32236587	Int J Oncol	WB,IHC,IF,CoIP

## 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

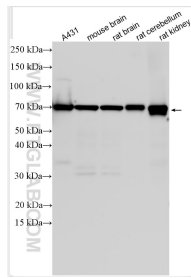
For technical support and original validation data for this product please contact:

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

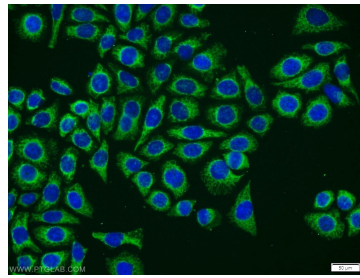
E: proteintech@ptglab.com  
W: ptglab.com

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 12297-1-AP (Neurotrophin 4 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of PC-3 cells using 12297-1-AP (Neurotrophin 4 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).