

# Neurotrophin 4 Polyclonal antibody

Catalog Number: 12297-1-AP

Featured Product

2 Publications

## Basic Information

## Catalog Number:

12297-1-AP

## Size:

600 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG2938

## GenBank Accession Number:

BC012421

## GeneID (NCBI):

4909

## UNIPROT ID:

P34130

## 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/ICC 1:50-1:500

## Applications

## Tested Applications:

WB, IF/ICC, ELISA

## Cited Applications:

WB, IHC, CoIP, IF

## 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/ICC : 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

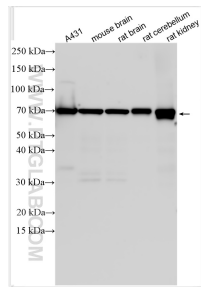
For technical support and original validation data for this product please contact:

T: 4006900926

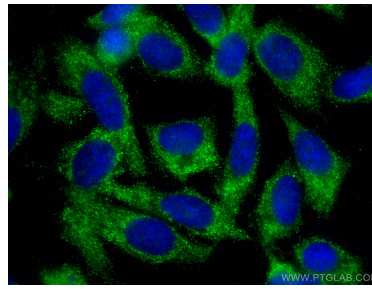
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12297-1-AP (Neurotrophin 4 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using Neurotrophin 4 antibody (12297-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).