

For Research Use Only

# Neurotrophin 3 Polyclonal antibody

Catalog Number: 18084-1-AP

14 Publications



## Basic Information

### Catalog Number:

18084-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12798

### GenBank Accession Number:

BC069773

### GeneID (NCBI):

4908

### UNIPROT ID:

P20783

### Full Name:

neurotrophin 3

### Calculated MW:

257 aa, 29 kDa

### Observed MW:

35 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

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : SH-SY5Y cells, human placenta tissue

IP : SH-SY5Y cells,

IF/ICC : SH-SY5Y cells,

## Background Information

Neurotrophin-3 (NT-3) is a member of the neurotrophin family, which are growth factor proteins that play essential roles in the development and maintenance of the nervous system. NT-3 is synthesized by fibroblasts and has been extensively studied for its role in the development of neurons and neural crest-derived cells, such as melanocytes. It can bind to each of the Trk receptors (Trk-A, Trk-B, and Trk-C), but it primarily functions by binding to Trk-C, modulating intracellular signal transduction through the MAPK and PI3K-Akt pathways, which regulate melanocyte differentiation and survival.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wu WenBo	28952006	Neurochem Res	WB, IHC
Minghao Yao	31355388	Biomater Sci	WB
Zheng Wang	36161173	Front Neurosci	WB

## 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

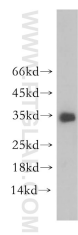
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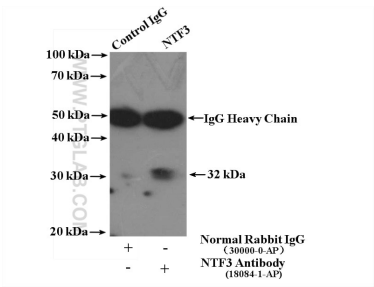
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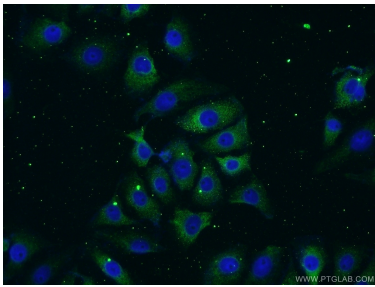
Selected Validation Data



SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 18084-1-AP (Neurotrophin 3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-Neurotrophin 3 (IP:18084-1-AP, 4ug; Detection:18084-1-AP 1:800) with SH-SY5Y cells lysate 1600ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using 18084-1-AP (Neurotrophin 3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).