

For Research Use Only

Neurotrophin 3 Polyclonal antibody

Catalog Number:18084-1-AP

14 Publications



Basic Information

Catalog Number:

18084-1-AP

Concentration:

350 ug/ml

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

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

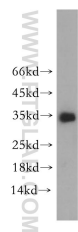
T: 4006900926

E: Proteintech-CN@ptglab.com

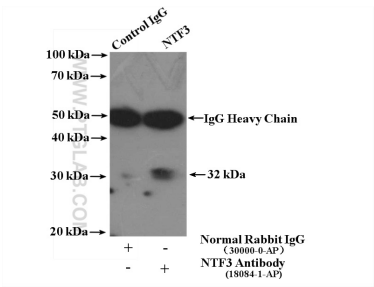
W: ptgcn.com

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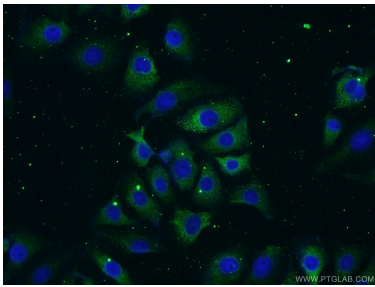
Selected Validation Data



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℃ 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).