For Research Use Only

NF-L Polyclonal antibody

Catalog Number:12998-1-AP 25 Publications



Basic Information

Catalog Number: GenBank Accession Number:

12998-1-AP BC039237
Size: GeneID (NCBI):

Nanodrop; UNIPROT ID:
Source: P07196
Rabbit Full Name:

150ul , Concentration: 600 ug/ml by

Isotype: neurofilament, light polypeptide

IgGCalculated MW:Immunogen Catalog Number:543 aa, 62 kDaAG3667Observed MW:

65-68 kDa, 140-160 kDa

Purification Method: Antigen affinity purification Recommended Dilutions:

WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:1000-1:4000 IF-P 1:50-1:500 IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), IP, ELISA

Cited Applications: WB, IHC, IF, IP, 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: SH-SY5Y cells, Neuro-2a cells, mouse brain tissue,

C6 cells

IP: SH-SY5Y cells,

IHC: mouse brain tissue, IF-P: mouse brain tissue, IF/ICC: SH-SY5Y cells,

Background Information

NEFL, also named as NF68 and NF-L, belongs to the intermediate filament family. Neurofilaments are the 10 nm intermediate filaments found specifically in neurons. They are a major component of the cell's cytoskeleton, and provide support for normal axonal radial growth. Neurofilaments usually contain three intermediate filament proteins: L, M, and H, which are involved in the maintenance of neuronal caliber. The names given to the three major neurofilament subunits are based upon the apparent molecular weight of the mammalian subunits on SDS-PAGE: NF-L, 65-68 kDa; NF-M, 145-160 kDa and NF-H, 200-220 kDa.This antibody is specific to NEFL It has a very weak reaction to NEFM.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyin Liu	36246376	Front Bioeng Biotechnol	IF
Brendan P Major	33117257	Front Neurol	
Fei Yin	25374587	Neural Regen Res	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

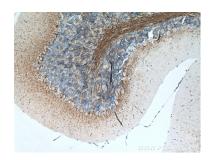
*** 20ul sizes contain 0.1% BSA

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

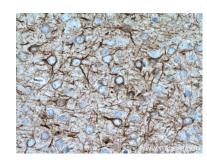
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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.

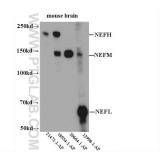
Selected Validation Data



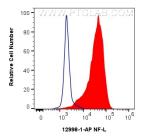
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 12998-1-AP (NF-L antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



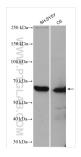
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 12998-1-AP (NF-L antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



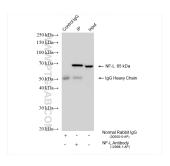
WB result of 12998-1-AP.



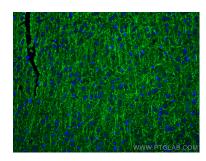
1x 10^6 SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human NF-L (12998-1-AP) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



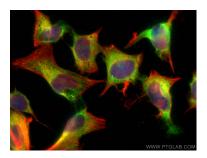
Various lysates were subjected to SDS PAGE followed by western blot with 12998-1-AP (NF-L antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



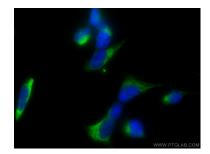
IP result of anti-NF-L (IP:12998-1-AP, 4ug; Detection:12998-1-AP 1:40000) with SH-SY5Y cells lysate 880 ug.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using NF-L antibody (12998-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using NF-L antibody (12998-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using NF-L antibody (12998-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).