

For Research Use Only

NF-H/NF200 Polyclonal antibody

Catalog Number: 21471-1-AP

5 Publications



Basic Information

Catalog Number: 21471-1-AP	GenBank Accession Number: BC073969	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 300 µg/ml by Nanodrop and 213 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4744	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Source: Rabbit	Full Name: neurofilament, heavy polypeptide	
Isotype: IgG	Calculated MW: 1026 aa, 112 kDa	
Immunogen Catalog Number: AG15249	Observed MW: 200 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, WB	WB : mouse brain tissue,
Species Specificity: human, mouse, rat	IHC : human brain tissue,
Cited Species: rat, mouse, monkey	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

NEFH, also named as KIAA0845 and NFH, Belongs to the intermediate filament family. It has an important function in mature axons that is not subserved by the two smaller NF proteins. Neurofilaments are the 10nm 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, 65-68kd; NF-M, 145-160kd and NF-H, 200-220kd. This antibody recognize NEFH only.

Notable Publications

Author	Pubmed ID	Journal	Application
Feng Yue	34704001	iScience	IF
Huanliang Liu	31829301	Sci Total Environ	WB
Jeffrey M Gimble	30881803	Plast Reconstr Surg Glob Open	IF

Storage

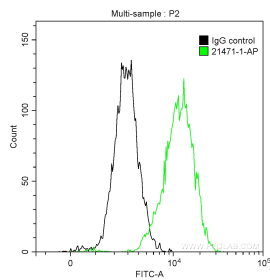
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

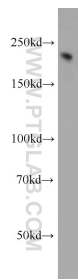
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

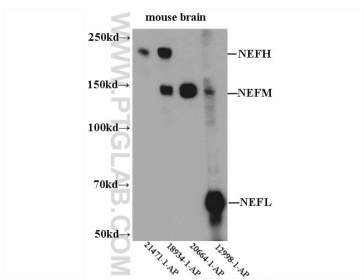
Selected Validation Data



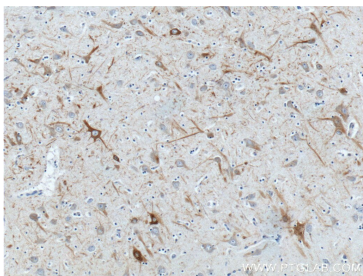
1X10⁶ SH-SY5Y cells were intracellularly stained with 0.5 ug Anti-Human NF-H (21471-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Control Antibody. Cells were fixed with 90% MeOH.



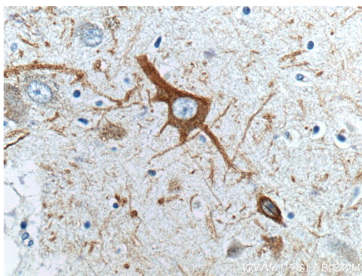
mouse brain tissue were subjected to SDS PAGE followed by western blot with 21471-1-AP (NF-H antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of 21471-1-AP.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 21471-1-AP (NF-H antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 21471-1-AP (NF-H antibody at dilution of 1:200 (under 40x lens).