

For Research Use Only

NF-H/NF200 Polyclonal antibody

Catalog Number: 18934-1-AP **75 Publications**



Basic Information

Catalog Number: 18934-1-AP	GenBank Accession Number: BC014185	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 ug/ml by Nanodrop;	GeneID (NCBI): 4744	Recommended Dilutions: WB: 1:500-1:3000
Source: Rabbit	UNIPROT ID: P12036	IHC: 1:200-1:800
Isotype: IgG	Full Name: neurofilament, heavy polypeptide	IF-P: 1:50-1:500
Immunogen Catalog Number: AG13517	Calculated MW: 112 kDa	IF-Fro: 1:50-1:500
	Observed MW: 200 kDa, 140-160 kDa	

Applications

Tested Applications: WB, IHC, IF-P, IF-Fro, ELISA	Positive Controls: WB : mouse brain tissue, rat brain tissue
Cited Applications: WB, IHC, IF	IHC : rat brain tissue, human gliomas tissue
Species Specificity: human, mouse, rat	IF-P : rat brain tissue, mouse brain tissue
Cited Species: human, mouse, rat, canine, monkey	IF-Fro : mouse brain tissue,

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 (NF200), 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 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 can recognize both NEFH and NEFM.

Notable Publications

Author	Pubmed ID	Journal	Application
Yanbo Zhu	34616478	Evid Based Complement Alternat Med	IF
Fei Yin	25374587	Neural Regen Res	WB
Huanhuan Sun	33176238	J Neuroimmunol	IHC

Storage

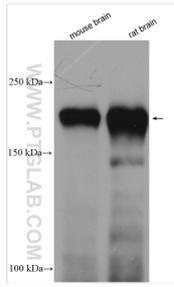
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

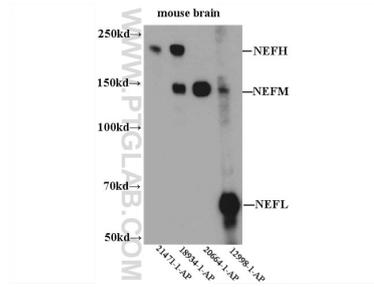
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

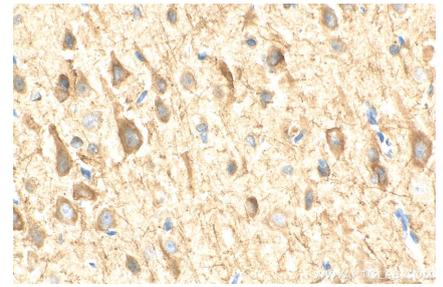
Selected Validation Data



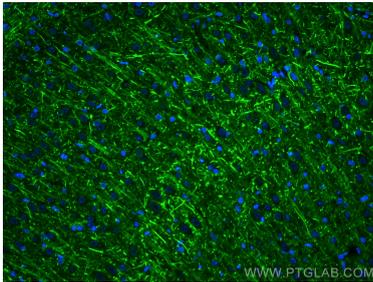
Various tissues were subjected to SDS PAGE followed by western blot with 18934-1-AP (NF-H antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



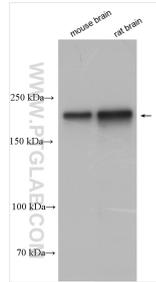
WB result of 18934-1-AP.



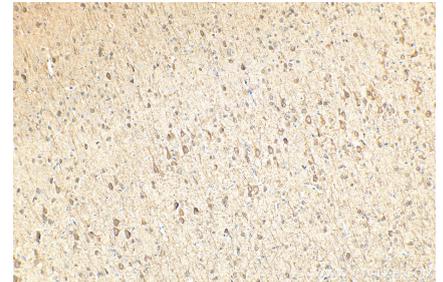
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 18934-1-AP (NF-H/NF200 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



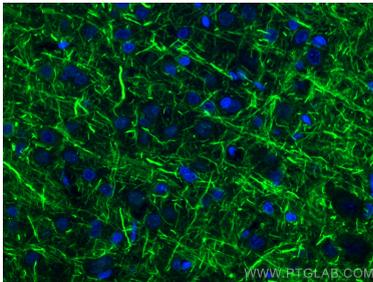
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using NF-H/NF200 antibody (18934-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



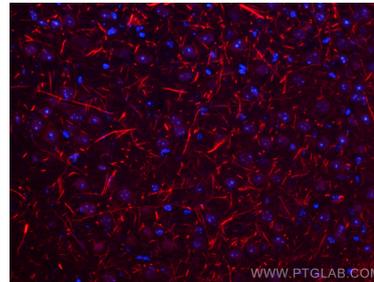
Various lysates were subjected to SDS PAGE followed by western blot with 18934-1-AP (NF-H/NF200 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



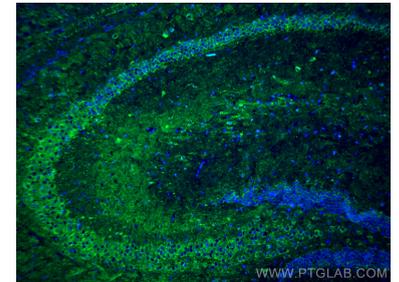
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 18934-1-AP (NF-H/NF200 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using NF-H/NF200 antibody (18934-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using NF-H/NF200 antibody (18934-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using NF-H/NF200 antibody (18934-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).