

For Research Use Only

# NF-H/NF200 Polyclonal antibody

Catalog Number: 18934-1-AP **68 Publications**



## Basic Information

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

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, IF-Fro, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, rat brain tissue IHC : rat brain tissue, human gliomas tissue IF-P : rat brain tissue, mouse brain tissue IF-Fro : mouse brain tissue,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat, canine	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

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

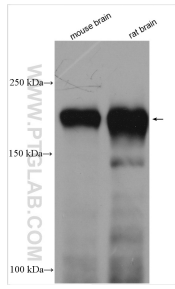
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

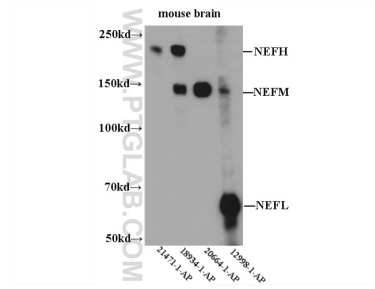
W: [ptgcn.com](http://ptgcn.com)

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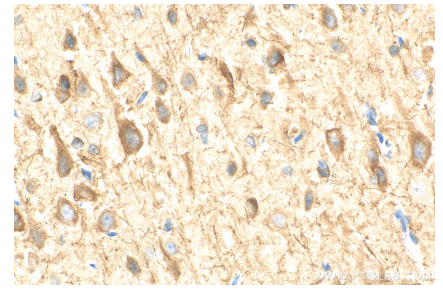
## Selected Validation Data



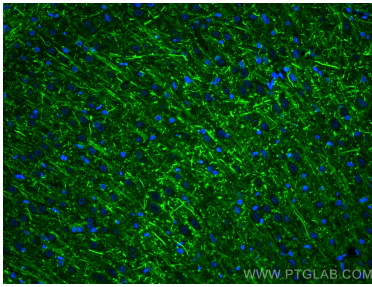
Various tissues were subjected to SDS PAGE followed by western blot with 18934-1-AP (NF-H antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



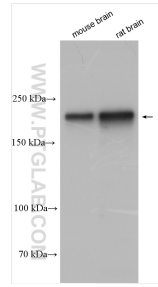
WB result of 18934-1-AP.



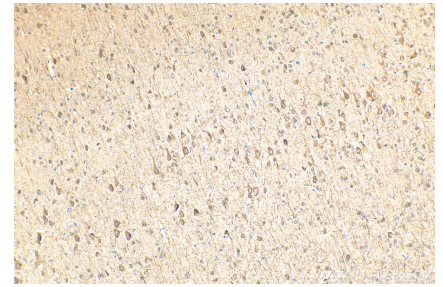
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 18934-1-AP (NF-H/NF200 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



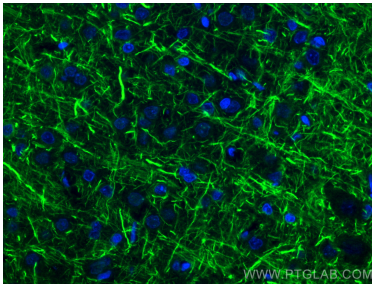
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using NF-H/NF200 antibody (18934-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



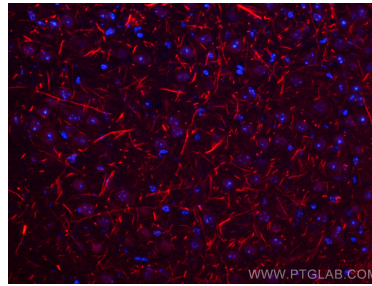
Various lysates were subjected to SDS PAGE followed by western blot with 18934-1-AP (NF-H/NF200 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



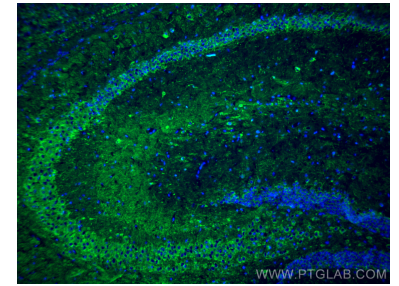
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 18934-1-AP (NF-H/NF200 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).