

For Research Use Only

# NF-H/NF200 Monoclonal antibody

Catalog Number: 60331-1-Ig **19 Publications**



## Basic Information

<b>Catalog Number:</b> 60331-1-Ig	<b>GenBank Accession Number:</b> BC014185	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4744	<b>CloneNo.:</b> 1A3C7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P12036	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:4000-1:16000 IF-P 1:200-1:800
<b>Isotype:</b> IgG2a	<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	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, FC (Intra), ELISA	<b>Positive Controls:</b> WB : pig cerebellum tissue, rat brain tissue, mouse brain tissue IHC : rat cerebellum tissue, rat brain tissue IF-P : rat brain tissue,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse, rat, pig	
<b>Cited Species:</b> 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**

## 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, 65-68 kDa; NF-M, 145-160 kDa and NF-H, 200-220 kDa. This antibody recognizes NEFH only.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shishi Shen	36288210	ACS Nano	IF
Huangao Zhou	32474063	J Chem Neuroanat	IHC
Zi-Jie Rong	35602557	Front Cell Neurosci	IHC

## 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

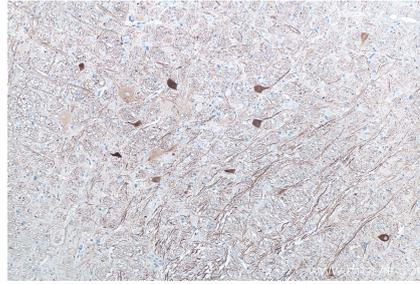
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

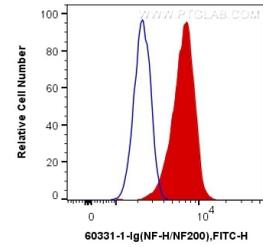
## Selected Validation Data



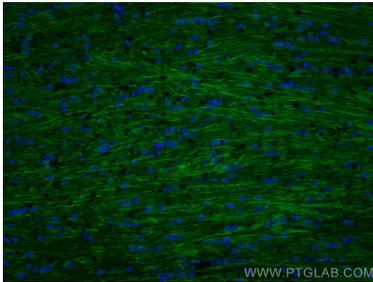
pig cerebellum tissue were subjected to SDS PAGE followed by western blot with 60331-1-Ig (NF-H antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



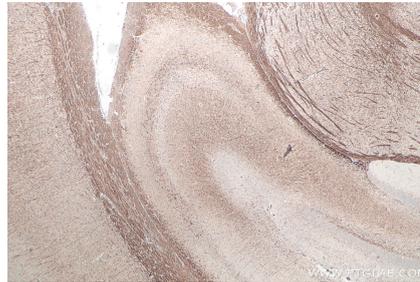
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 60331-1-Ig (NF-H antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.2 ug Anti-Human NF-H/ NF200 (60331-1-Ig, Clone:1A3C7) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using NF-H/NF200 antibody (60331-1-Ig, Clone: 1A3C7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 60331-1-Ig (NF-H antibody) at dilution of 1:2000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).