

## NF-H/NF200 Polyclonal antibody

Catalog Number: 21471-1-AP

5 Publications

## Basic Information

<b>Catalog Number:</b> 21471-1-AP	<b>GenBank Accession Number:</b> BC073969	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 213 µg/ml	<b>GeneID (NCBI):</b> 4744	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 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> AG15249	<b>Calculated MW:</b> 1026 aa, 112 kDa	
	<b>Observed MW:</b> 200 kDa	

## Applications

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

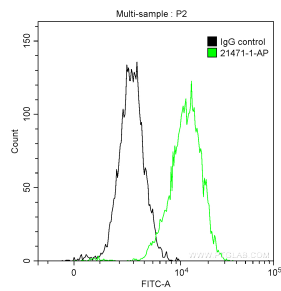
For technical support and original validation data for this product please contact:

T: 4006900926

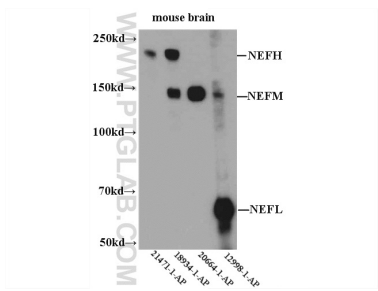
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

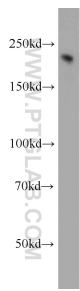
Selected Validation Data



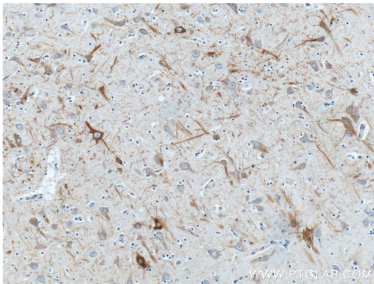
1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.5 ug Anti-Human NF-H (21471-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Control Antibody. Cells were fixed with 90% MeOH.



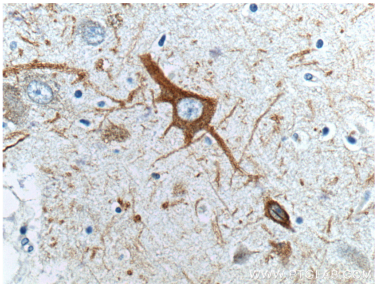
WB result of 21471-1-AP.



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.



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).