

For Research Use Only

NF-H/NF200 Monoclonal antibody



Catalog Number: 60331-1-Ig **2 Publications**

Basic Information

Catalog Number: 60331-1-Ig	GenBank Accession Number: BC014185	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4744	CloneNo.: 1A3C7
Source: Mouse	Full Name: neurofilament, heavy polypeptide	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:4000-1:16000 IF 1:20-1:200
Isotype: IgG2a	Calculated MW: 112 kDa	
Immunogen Catalog Number: AG13517	Observed MW: 200 kDa	

Applications

Tested Applications: FC (Intra), IF, IHC, WB, ELISA	Positive Controls: WB : pig cerebellum tissue, rat brain tissue, mouse brain tissue IHC : rat cerebellum tissue, IF : SH-SY5Y cells,
Cited Applications: IF, IHC	
Species Specificity: human, pig, mouse, rat	
Cited Species: 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 recognize NEFH only.

Notable Publications

Author	Pubmed ID	Journal	Application
Huangao Zhou	32474063	J Chem Neuroanat	IHC
Xianzhen Dong	34894585	Biomaterials	IF

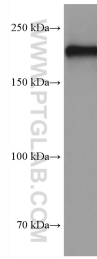
Storage

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

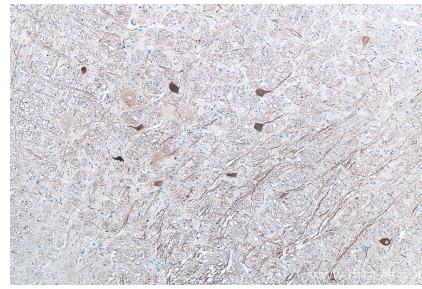
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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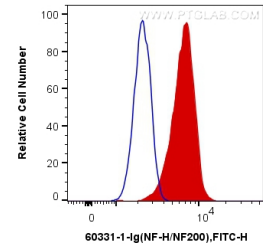
Selected Validation Data



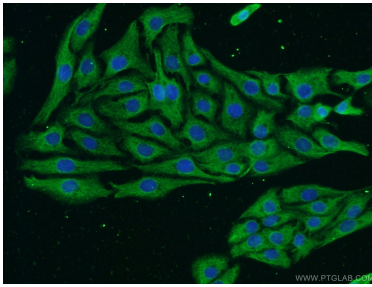
pig cerebellum tissue were subjected to SDS PAGE followed by western blot with 60331-1-Ig (NF-H antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



1×10^6 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 SH-SY5Y cells using 60331-1-Ig (NF200 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).