

For Research Use Only

NF-H Polyclonal antibody

Catalog Number: 18934-1-AP **12 Publications**



Basic Information

Catalog Number: 18934-1-AP	GenBank Accession Number: BC014185	Purification Method: Antigen affinity purification
Size: 150UL, Concentration: 450 µg/ml by Nanodrop and 327 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4744	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: neurofilament, heavy polypeptide	
Isotype: IgG	Calculated MW: 112 kDa	
Immunogen Catalog Number: AG13517	Observed MW: 200 kDa, 140-160 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB: mouse brain tissue, IHC: mouse brain tissue, human gliomas tissue IF: mouse brain tissue,
Cited Applications: IF, IHC, WB	
Species Specificity: human, 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 (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
Fei Yin	25374587	Neural Regen Res	WB
Huanhuan Sun	33176238	J Neuroimmunol	IHC
Jueqiong Wang	27725120	J Neuroimmunol	IHC

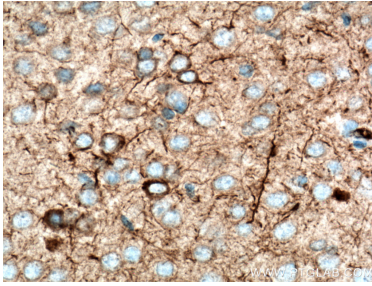
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

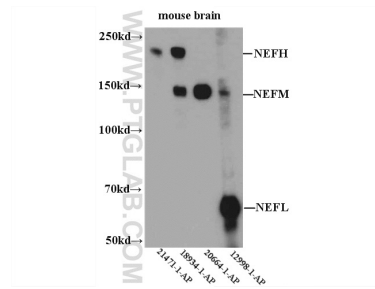
For technical support and original validation data for this product please contact:
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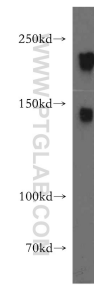
Selected Validation Data



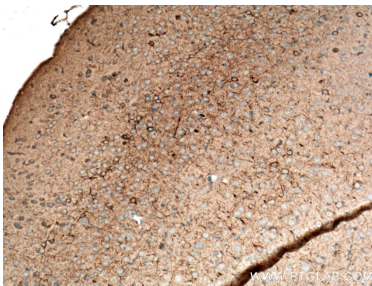
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18934-1-AP (NF-H antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



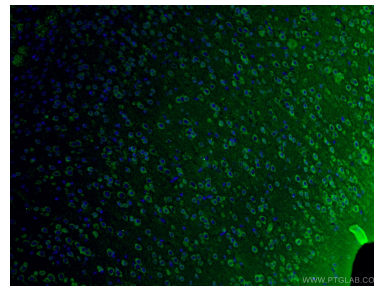
WB result of 18934-1-AP.



mouse brain tissue were subjected to SDS PAGE followed by western blot with 18934-1-AP (NEFH antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18934-1-AP (NF-H antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 18934-1-AP (NF-H antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).