

For Research Use Only

NF-M Polyclonal antibody

Catalog Number: 25805-1-AP

11 Publications



Basic Information

Catalog Number: 25805-1-AP	GenBank Accession Number: BC002421	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 260 µg/ml by Nanodrop and 213 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4741	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: neurofilament, medium polypeptide	
Isotype: IgG	Calculated MW: 102 kDa	
Immunogen Catalog Number: AG22709	Observed MW: 140 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, rat, mouse

Cited Species:
canine, 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

Positive Controls:

WB: mouse brain tissue, rat brain tissue

IHC: mouse cerebellum tissue, human brain tissue, human colon tissue, mouse brain tissue

IF: mouse brain tissue,

Background Information

NEFM, also named as NEF3 and NFM, belongs to the intermediate filament family. 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 endogenous NF-M protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Natasha L Pacheco	29090078	Mol Autism	WB
Dong Sun	31642560	Cell Biol Int	WB
Jipeng Jiang	33026366	Biomater Sci	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

*** 20ul sizes contain 0.1% BSA

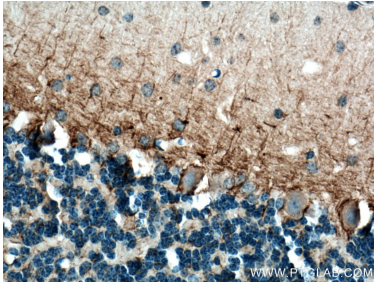
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

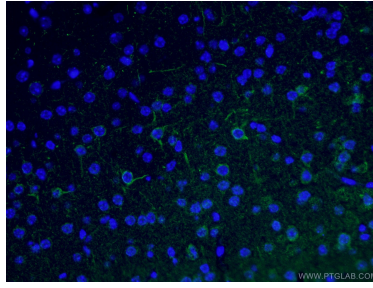
E: proteintech@ptglab.com
W: ptglab.com

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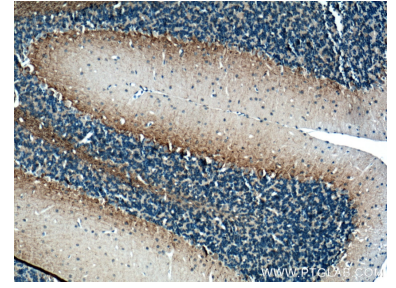
Selected Validation Data



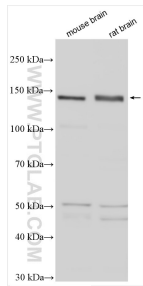
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 25805-1-AP (NF-M antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



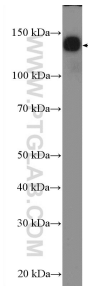
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 25805-1-AP (NF-M antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



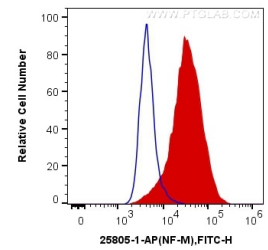
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 25805-1-AP (NF-M antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 25805-1-AP (NF-M antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



mouse brain tissue were subjected to SDS PAGE followed by western blot with 25805-1-AP (NEFM Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10⁶ PC-12 cells were intracellularly stained with 0.4 ug Anti-Human NF-M (25805-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).