

For Research Use Only

NF-L Recombinant monoclonal antibody

Catalog Number: 87694-1-RR



Basic Information

Catalog Number: 87694-1-RR	GenBank Accession Number: BC039237	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4747	CloneNo.: 253172B6
Isotype: IgG	UNIPROT ID: P07196	Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:500-1:2000 IF-P: 1:200-1:800
Immunogen Catalog Number: AG3667	Full Name: neurofilament, light polypeptide	
	Calculated MW: 543 aa, 62 kDa	
	Observed MW: 65 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Species Specificity:
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 : HEK-293 cells, SH-SY5Y cells

IHC : rat brain tissue, mouse brain tissue

IF-P : mouse brain tissue,

Background Information

NEFL, also named as NF68 and NF-L, belongs to the intermediate filament family. 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.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

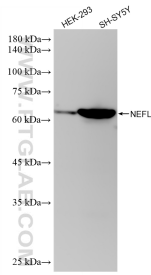
T: 4006900926

E: Proteintech-CN@ptglab.com

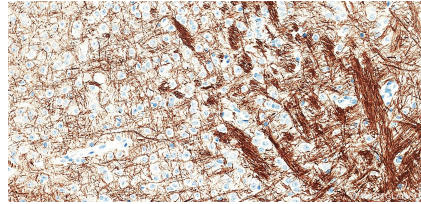
W: ptgcn.com

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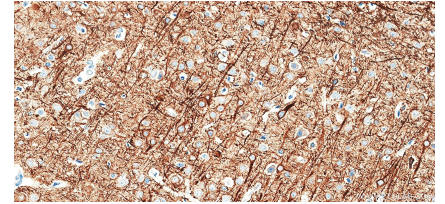
Selected Validation Data



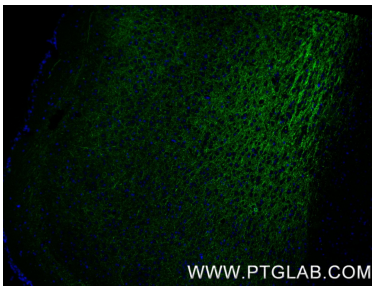
Various lysates were subjected to SDS PAGE followed by western blot with 87694-1-RR (NF-L antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



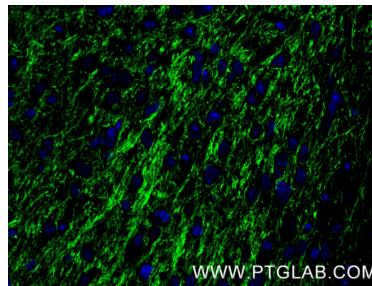
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 87694-1-RR (NF-L antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



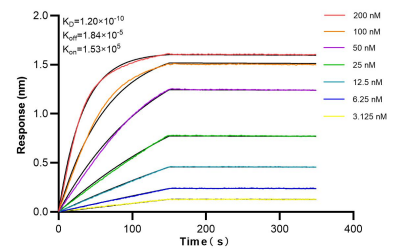
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 87694-1-RR (NF-L antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using NF-L antibody (87694-1-RR, Clone: 253172B6) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using NF-L antibody (87694-1-RR, Clone: 253172B6) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 87694-1-RR against Human NF-L were performed. The affinity constant is 0.12 nM.