For Research Use Only

NF-L Polyclonal antibody

20 Publications

Catalog Number:12998-1-AP

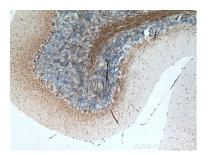
Antibodies | ELISA kits | Proteins www.ptglab.com

Basic Information	Catalog Number: 12998-1-AP	GenBank Accession Number: BC039237	Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI):	Recommended Dilutions:	
	600 µg/ml	4747	WB 1:2000-1:16000	
	Source: Rabbit	UNIPROT ID: P07196	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
	Isotype: IgG	Full Name: neurofilament, light polypepti	IHC 1:1000-1:4000 IF 1:200-1:800 de	
	Immunogen Catalog Number: AG3667	Calculated MW: 543 aa, 62 kDa		
		Observed MW: 65-68 kDa, 140-160 kDa		
Applications	Tested Applications:		Positive Controls: WB : SH-SY5Y cells, Neuro-2a cells, mouse brain tissue, C6 cells	
	FC, IF/ICC, IF-P, IHC, IP, WB, ELISA Cited Applications:	WD: SH		
	WB, IP, IF, IHC	IP : mou	ıse brain tissue,	
	Species Specificity: human, mouse, rat	IHC : m	ouse brain tissue,	
	Cited Species:	IF : SH-	SY5Y cells, mouse brain tissue	
	human, rat, mouse			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
	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 mamalian subunits on SDS-PAGE: NF-L, 65-68 kDa; NF-M, 145-160 kDa and NF-H, 200-220 kDa.This antibody is specific to NEFL It has a very weak reaction to NEFM.			
Background Information	intermediate filaments found spe provide support for normal axona proteins: L, M, and H, which are inv neurofilament subunits are based NF-L, 65-68 kDa; NF-M, 145-160 kl	l radial growth. Neurofilaments usu volved in the maintenance of neuro upon the apparent molecular weig	ally contain three intermediate filament nal caliber. The names given to the three majc ht of the mammalian subunits on SDS-PAGE:	
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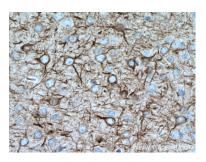
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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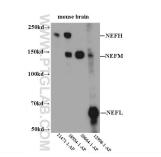
Selected Validation Data



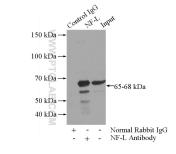
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 12998-1-AP (NF-L antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



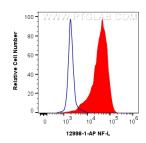
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 12998-1-AP (NF-L antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



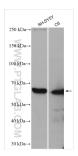
WB result of 12998-1-AP.



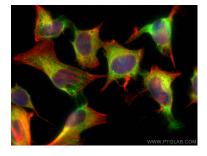
IP result of anti-NF-L (IP:12998-1-AP, 4ug; Detection:12998-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



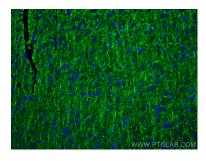
1x10^6 SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human NF-L (12998-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit lgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



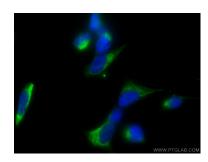
Various lysates were subjected to SDS PAGE followed by western blot with 12998-1-AP (NF-L antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using NF-L antibody (12998-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using NF-L antibody (12998-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using NF-L antibody (12998-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).