

For Research Use Only

# NF-L Monoclonal antibody, PBS Only

Catalog Number: 60189-1-PBS



## Basic Information

<b>Catalog Number:</b> 60189-1-PBS	<b>GenBank Accession Number:</b> BC039237	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4747	<b>CloneNo.:</b> 5C12G4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P07196	
<b>Isotype:</b> IgG1	<b>Full Name:</b> neurofilament, light polypeptide	
<b>Immunogen Catalog Number:</b> AG15178	<b>Calculated MW:</b> 543 aa, 62 kDa	
	<b>Observed MW:</b> 65 kDa	

## Applications

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

**Species Specificity:**  
human, mouse, rat, pig

## 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. This antibody is specific to NEFL.

## Storage

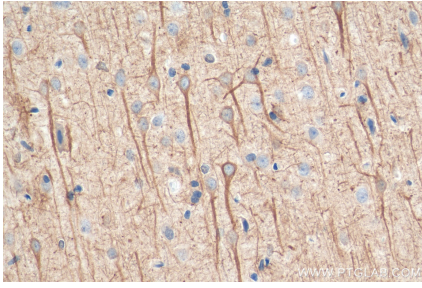
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

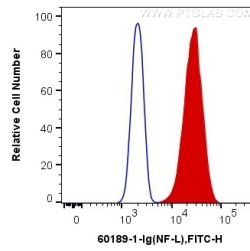
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

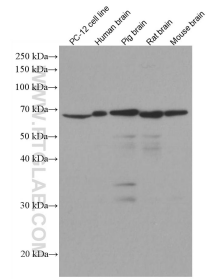
## Selected Validation Data



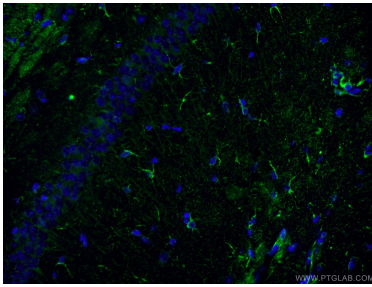
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 60189-1-Ig (NF-L antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60189-1-PBS in a different storage buffer formulation.



$1 \times 10^6$  PC-12 cells were intracellularly stained with 0.4  $\mu$ g Anti-Human NF-L (60189-1-Ig, Clone:5C12G4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4  $\mu$ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 60189-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 60189-1-Ig (NF-L antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60189-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 60189-1-Ig (NF-L antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 60189-1-PBS in a different storage buffer formulation.