

For Research Use Only

CoraLite®594-conjugated NF-L Monoclonal antibody

Catalog Number:CL594-60189



Basic Information

Catalog Number: CL594-60189	GenBank Accession Number: BC039237	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 4747	CloneNo.: 5C12G4
Source: Mouse	UNIPROT ID: P07196	Recommended Dilutions: IF-P 1:50-1:500
Isotype: IgG1	Full Name: neurofilament, light polypeptide	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG15178	Calculated MW: 543 aa, 62 kDa	
	Observed MW: 65 kDa	

Applications

Tested Applications: IF-P, FC (Intra)	Positive Controls: IF-P : mouse brain tissue,
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.

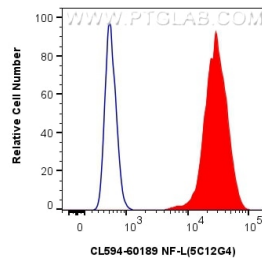
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

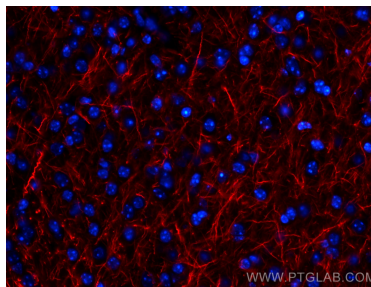
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1X10⁶ SH-SY5Y cells were intracellularly stained with 0.4 μ g CoraLite®594 Anti-Human NF-L (CL594-60189, Clone:5C12G4) (red), or 0.4 μ g CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite®594 NF-L antibody (CL594-60189, Clone: 5C12G4) at dilution of 1:200.