For Research Use Only

CoraLite®594-conjugated NF-L Monoclonal antibody

Catalog Number:CL594-60189

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL594-60189

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG15178

GenBank Accession Number:
BC039237

GeneID (NCBI):
4747

UNIPROT ID:
P07196

Full Name:
neurofilament, light polypeptide

Calculated MW:
543 aa, 62 kDa

Observed MW:
65 kDa

Purification Method:
Protein G purification

CloneNo.:
5C12G4

Recommended Dilutions:
IF-P 1:50-1:500

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
IF-P, FC (Intra)

Species Specificity:
human, mouse, rat, pig

Positive Controls:

IF-P : mouse brain tissue,

Background Information

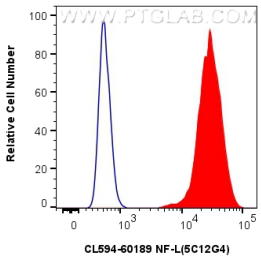
NEFL, also named as NF68 and NF-L, belongs to the intermediate filament family. Neurofilaments are the 10 nm intermediate filaments found specifically in neurons. They are a major component of the cell's cytoskeleton, and provide support for normal axonal radial growth. Neurofilaments usually contain 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.This antibody is specific to NEFL.

Storage

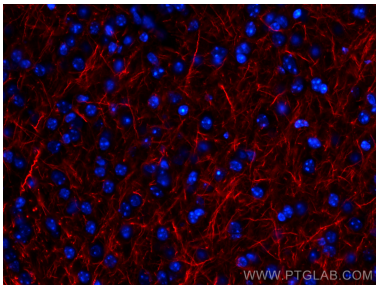
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



1X10^6 SH-SY5Y cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human NF-L (CL594-60189, Clone:5C12G4) (red), or 0.4 ug 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.