

## Anti-Neurofilament NF-L Antibody

Our Anti-Neurofilament NF-L primary antibody from PhosphoSolutions is mouse monoclonal. It detects b  
Catalog # AN1466

### Specification

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#### Anti-Neurofilament NF-L Antibody - Product Information

Application	WB, IHC
Primary Accession	<a href="#">P02547</a>
Reactivity	Bovine, Chicken, Drosophila
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	62072

#### Anti-Neurofilament NF-L Antibody - Additional Information

##### Other Names

68 kDa neurofilament protein antibody, 68kDa Neurofilament antibody, 68kDa neurofilament protein antibody, CMT1F antibody, CMT2E antibody, FLJ53642 antibody, Light molecular weight neurofilament protein antibody, NEFL antibody, Neurofilament light antibody, Neurofilament light polypeptide 68kDa antibody, Neurofilament light polypeptide antibody, Neurofilament protein, light chain antibody, Neurofilament subunit NF L antibody, Neurofilament triplet L protein antibody, NF-L antibody, NF68 antibody, NFL antibody, NFL\_HUMAN antibody

##### Target/Specificity

Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H (1). NF-L is the neurofilament light or low molecular weight polypeptide and runs on SDS-PAGE gels at about ~68 kDa. Antibodies to NF-L are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. Mutations in the protein coding region of the human NF-L gene cause some forms of Charcot-Marie-Tooth disease (2).

##### Format

Protein G Purified

##### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

Anti-Neurofilament NF-L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

##### Shipping

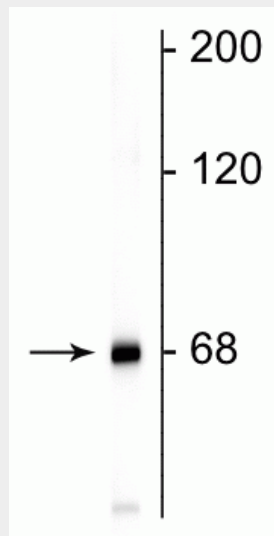
Blue Ice

#### Anti-Neurofilament NF-L Antibody - Protocols

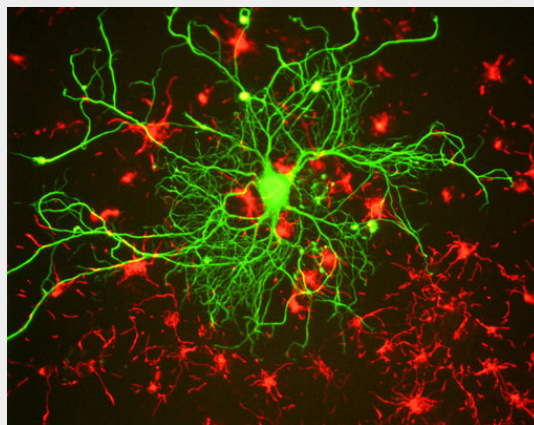
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

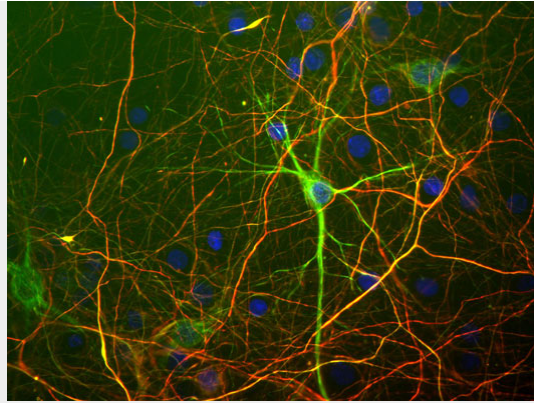
#### Anti-Neurofilament NF-L Antibody - Images



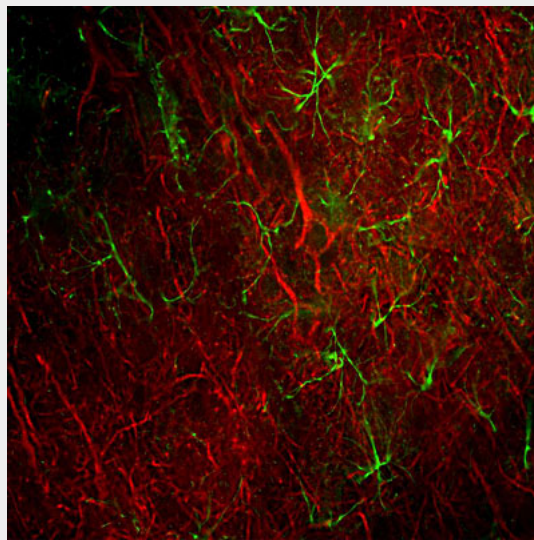
Western blot of rat cortical lysate showing specific immunolabeling of the ~68 kDa NF-L protein.



Immunostaining of mixed cultured rat neurons stained with anti-NFL antibody (cat. 1452-NFL, green, 1:100) and anti-alpha internexin.



Immunostaining of mixed cultured rat neurons and glia stained with anti-NFH antibody (cat. 1451-NFH, red, 1:25,000) and anti-NFL antibody (cat. 1452-NFL, green, 1:100).



Immunofluorescence of a section of rat frontal cortex showing labeling of Neurofilament-L (cat. 1452-NFL, 1:500, red) and labeling of GFAP (cat. 621-GFAP, 1:5000, green). The anti-NFL antibody labels cell bodies and processes of pyramidal neurons, as well as dendrites and axons of other neuronal cells. While the anti-GFAP antibody labels the network of glial cells.

### **Anti-Neurofilament NF-L Antibody - Background**

Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H (1). NF-L is the neurofilament light or low molecular weight polypeptide and runs on SDS-PAGE gels at about ~68 kDa. Antibodies to NF-L are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. Mutations in the protein coding region of the human NF-L gene cause some forms of Charcot-Marie-Tooth disease (2).