Anti-Neurofilament NF-M Antibody
Our Anti-Neurofilament NF-M primary antibody from PhosphoSolutions is mouse monoclonal. It detects b
Catalog # AN1468

Specification

Anti-Neurofilament NF-M Antibody - Product Information

Application	**WB, IHC**
Primary Accession	**P12839**
Reactivity	**Bovine, Chicken, Drosophila**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**95791**

Anti-Neurofilament NF-M Antibody - Additional Information

Gene ID	**24588**

Other Names
150 kDa Neurofilament Medium antibody, 160 kDa neurofilament protein antibody, Medium polypeptide 150kDa antibody, NEF3 antibody, Neurofilament 3 antibody, Neurofilament 3 medium antibody, Neurofilament medium polypeptide antibody, Neurofilament protein M antibody, Neurofilament triplet M protein antibody, Neurofilament-3 (150 kD medium) antibody, NF-M antibody, NFM antibody

Target/Specificity
Neurofilaments are the 10 nm 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-M is the neurofilament middle or medium molecular weight polypeptide and runs on SDS-PAGE gels at 145-160 kDa, with some variability across species boundaries. Antibodies to NF-M are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. NF-M antibodies can also be useful to visualize neurofilament accumulations seen in many neurological diseases, such as Amyotrophic Lateral Sclerosis (Lou Gehrig's disease) and Alzheimer's disease (2).

Dilution
WB~~1:1000
IHC~~1:100~500

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-M Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
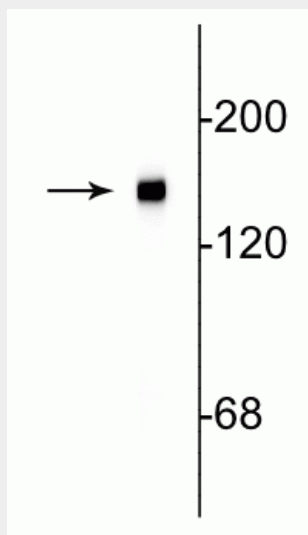
Shipping
Blue Ice

Anti-Neurofilament NF-M 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 Cytomety
- Cell Culture

Anti-Neurofilament NF-M Antibody - Images

Western blot of rat cortical lysate showing specific immunolabeling of the ~145 kDa NF-M protein.
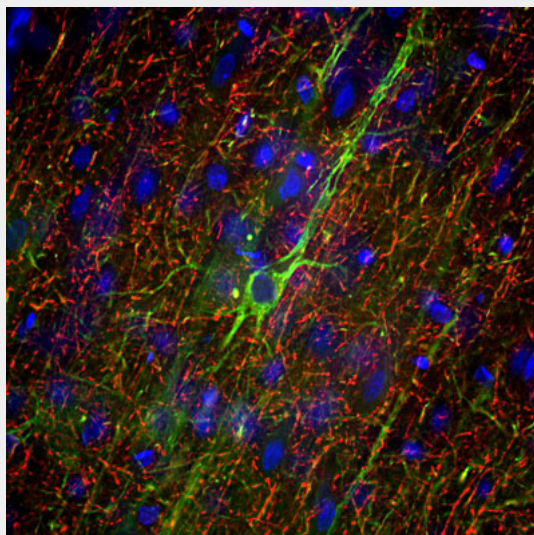
Immunofluorescence of a section of adult rat frontal cortex labeled with anti-Neurofilament-M (cat. 1454-NFM, 1:5000, red) and anti-Neurofilament-H (cat. 1451-NFH, 1:5000, green). The anti-NFM specifically labels neuron cell bodies and dendrites of pyramidal neurons, while the anti-NFH labels the network of neuronal axons only. The blue is Hoechst staining of nuclear DNA.
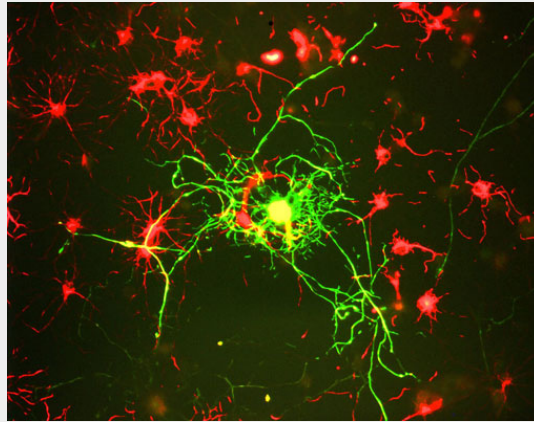
Immunostaining of cultured rat neurons showing labeling of NF-M (cat. 1454-NFM, green, 1:100) in mature neurons.

Anti-Neurofilament NF-M Antibody - Background

Neurofilaments are the 10 nm 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-M is the neurofilament middle or medium molecular weight polypeptide and runs on SDS-PAGE gels at 145-160 kDa, with some variability across species boundaries. Antibodies to NF-M are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. NF-M antibodies can also be useful to visualize neurofilament accumulations seen in many neurological diseases, such as Amyotrophic Lateral Sclerosis (Lou Gehrig's disease) and Alzheimer's disease (2).