

Neurofilament M (NF-M) Antibody
Mouse monoclonal antibody
Catalog # AN1148**Specification**

Neurofilament M (NF-M) Antibody - Product Information

Application	WB, IF
Primary Accession	P12839
Reactivity	Rat
Predicted	Chicken, Human, Mouse
Host	Mouse
Clonality	monoclonal
Isotype	IgG1
Calculated MW	145 KDa

Neurofilament M (NF-M) Antibody - Additional Information

Gene ID	24588
Gene Name	NEFM

Other Names

Neurofilament medium polypeptide, NF-M, 160 kDa neurofilament protein, Neurofilament 3, Neurofilament triplet M protein, Nefm, Nef3, Nfm

Target/Specificity

Preparation containing the extreme C-terminus expressed in and purified from E. Coli.

Dilution

WB~~ 1:1000

IF~~ 1:100

Format

Unpurified, concentrated culture supernatant.

Antibody Specificity

Specific for the ~145k neurofilament M protein.

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

Neurofilament M (NF-M) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

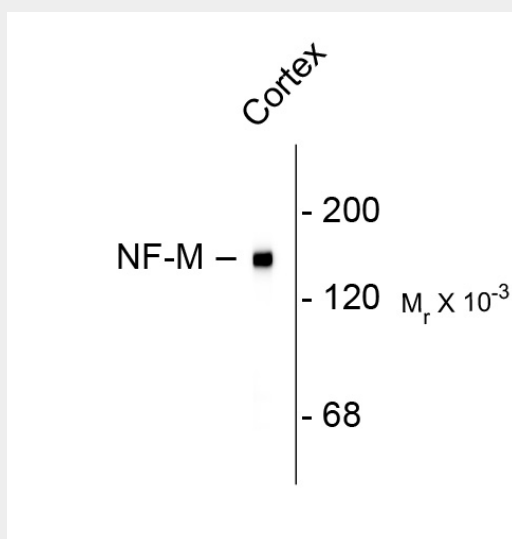
Blue Ice

Neurofilament M (NF-M) Antibody - Protocols

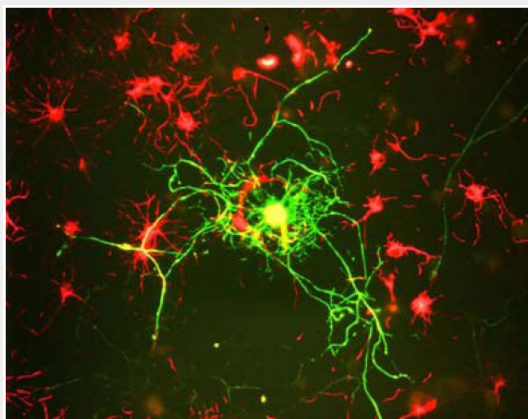
Provided below are standard protocols that you may find useful for product applications.

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

Neurofilament M (NF-M) Antibody - Images



Western blot of rat cortex lysate showing specific immunolabeling of the ~ 145k NF-M protein.



Immunostaining of cultured rat neurons showing labeling of NF-M (green) in mature neurons.

Neurofilament M (NF-M) 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-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).

Neurofilament M (NF-M) Antibody - References

1.
Harris, J., Ayyub, C. and Shaw G. (1991) A molecular dissection of the carboxyterminal tails of the major neurofilament subunits NF-M and NF-H. J Neurosci Res 30:47-62.
2.
Hu YY, He SS, Wang XC, Duan QH, Khatoon S, Igbal K, Grundke-Igbal I, Wang JZ (2002) Elevated levels of phosphorylated neurofilament proteins in cerebrospinal fluid of Alzheimer disease patients. Neurosci Lett 320(3):156-60.