

Anti-Neurofilament Medium NF-M Monoclonal Antibody

Catalog Number: M06821-1

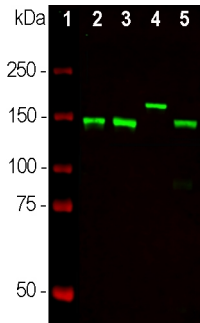
Overview

Product Name	Anti-Neurofilament Medium NF-M Monoclonal Antibody
Reactive Species	Bovine, Chicken, Equine, Human, Mouse, Pig, Rat
Description	Boster Bio Anti-Neurofilament Medium NF-M Monoclonal Antibody catalog # M06821-1. Tested in IF, IHC, WB applications. This antibody reacts with Bovine, Chicken, Equine, Human, Mouse, Pig, Rat.
Application	IF, IHC, WB
Clonality	Monoclonal
Formulation	Affinity purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN ₃
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P07197

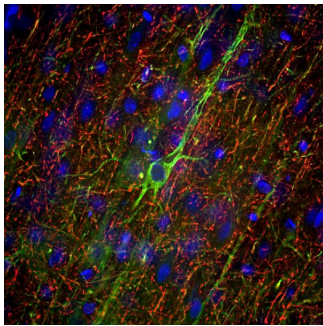
Technical Details

Immunogen	Recombinant fusion protein containing the extreme C-terminus of rat NF-M, amino acids 677-845, expressed in and purified from E. coli
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:5,000. IF/ICC and IHC: 1:500.</p>

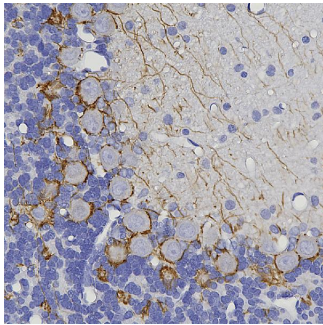
Anti-Neurofilament Medium NF-M Monoclonal Antibody (M06821-1) Images



Western blot analysis of neuronal tissue lysates using mouse mAb to NF-M, M06821-1, dilution 1:10,000 in green: [1] protein standard (red), [2] rat spinal cord, [3] mouse spinal cord, [4] cow spinal cord, [5] rat sciatic nerve. Strong bands at 145kDa correspond to rodent NF-M while that at about 160kDa corresponds to the significantly larger bovine NF-M protein.



Immunofluorescence analysis of adult rat frontal cortex section stained with mouse mAb to neurofilament NF-M, M06821-1, dilution 1:5,000 in green, and costained with chicken pAb to neurofilament NF-H, dilution 1:5,000 in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45M, and free-floating sections were stained with above antibodies. M06821-1 antibody labels neuron cell bodies and dendrites of pyramidal neurons, as well as dendrites and axons of other neuronal cells, while the NF-H antibody stains the network of neuronal axons only.



Chromogenic immunostaining of a 4% PFA fixed paraffin embedded rat cerebellum section with mouse mAb to NF-M, M06821-1, dilution 1:10,000, detected with DAB (brown) using the Vector Labs ImmPRESS method and reagents with citra buffer retrieval. Hematoxylin (blue) was used as the counterstain. This antibody performs well in testing with both 4% PFA and standard NBF fixed tissues but does not stain long term NBF fixed tissue effectively.

1 Publications Citing This Product

1. PubMed ID: 33582188, Wu K, Yue J, Shen K, He J, Zhu G, Liu S, Yang H, Zhang C. Expression and cellular distribution of FGF13 in cortical tubers of the tuberous sclerosis complex. *Neurosci Lett*. 2021 Feb 11;135714. doi:10.1016/j.neulet.2021.135714. Epub ahead of print. PMID:33582188.

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