

Product Datasheet

NF-M Antibody (3H11) - BSA Free NB300-134

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB300-134

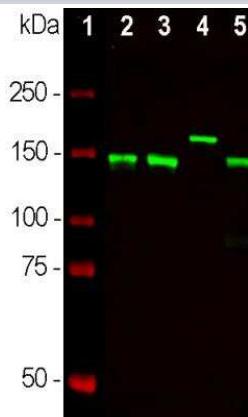
NF-M Antibody (3H11) - BSA Free

Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3H11
Preservative	0.035% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	145-160 kDa
Product Description	
Host	Mouse
Gene ID	4741
Gene Symbol	NEFM
Species	Human, Mouse, Rat, Porcine, Bovine, Chicken, Equine
Marker	Neuronal Marker
Specificity/Sensitivity	Specifically recognizes the medium neurofilament subunit (~145-160 kDa).
Immunogen	Recombinant fusion protein containing the extreme C-terminus of rat NF-M, amino acids 677-845, expressed in and purified from E. coli
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:5000, Immunohistochemistry 1:500, Immunocytochemistry/ Immunofluorescence 1:500, Immunohistochemistry-Paraffin 1:500, Immunohistochemistry Free-Floating 1:500
Application Notes	This 145-160kDa Neurofilament Medium antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded sections and Western blot. *The investigator should determine the optimal dilution for a specific application.

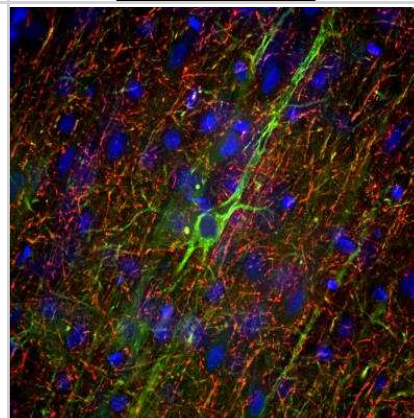


Images

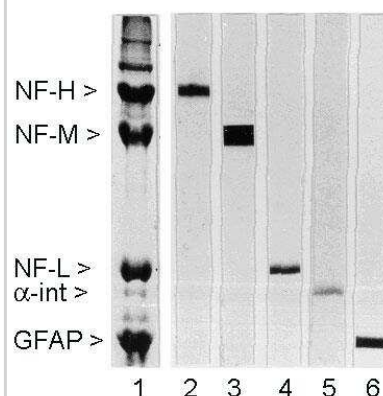
Western Blot: NF-M Antibody (3H11) [NB300-134] - Neuronal tissue lysates using mouse mAb to NF-M, dilution 1:10,000 in green: [1] protein standard (red), [2] rat spinal cord, [3] mouse spinal cord, [4] cow spinal cord, [5] rat sciatic nerve. Strong bands at ~145 kDa corresponds to rodent NF-M while that at about 160 kDa corresponds to the significantly larger bovine NF-M protein.



Immunohistochemistry Free-Floating: NF-M Antibody (3H11) [NB300-134] - Adult rat frontal cortex section stained with mouse mAb to neurofilament NF-M, 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 45µm, and free-floating sections were stained with above antibodies. NB300-134 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.



Western Blot: 160kDa Neurofilament Medium Antibody (3H11) [NB300-134] - Rat spinal cord homogenate showing the major intermediate filament proteins of the nervous system (lane 1). The remaining lanes show blots of this material stained with various antibodies including NB300-134 (lane 3).



Publications

Jacobsen M, Lett K, Barden J et al. Activation of the Large-Conductance, Voltage, and Ca²⁺- Activated K⁺ (BK) Channel in Acute Spinal Cord Injury in the Wistar Rat Is Neuroprotective. *Front. Neurol.* 2018-12-18 [PMID: 30619063] (IF/IHC, Rat)

Sikora J, Leddy J, Gulinello M, Walkley SU. X-linked Christianson syndrome: heterozygous female Slc9a6 knockout mice develop mosaic neuropathological changes and related behavioral abnormalities. *Dis Model Mech.* 2015-10-29 [PMID: 26515654] (IF/IHC, Mouse)



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Products Related to NB300-134

NBL1-13578	NF-M Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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