

Product Datasheet

NF-M Antibody NB300-222

Unit Size: 0.25 ml

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

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NB300-222

NF-M Antibody

Product Information	
Unit Size	0.25 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.035% Sodium Azide
Isotype	IgY
Purity	IgY purified
Buffer	Supplied as concentrated total IgY preparation from egg yolk. Exact concentration of target specific IgY is not quantifiable as the preparation contains both immune IgY specific for the target and also irrelevant, non-immune IgY.
Target Molecular Weight	160 kDa

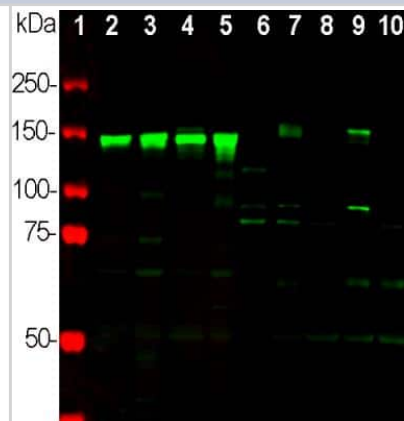
Product Description	
Host	Chicken
Gene ID	4741
Gene Symbol	NEFM
Species	Human, Mouse, Rat, Porcine, Bovine, Chicken, Drosophila, Equine
Reactivity Notes	Drosophila reactivity reported in scientific literature (PMID:31811140).
Marker	Neuronal Marker
Immunogen	Recombinant construct containing the C-terminus of the human sequence (amino acids 708-877) expressed in and purified from E. coli.
Notes	Chicken products cannot be exported to Canada.

Product Application Details	
Applications	Western Blot, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry Free-Floating, Knockdown Validated
Recommended Dilutions	Western Blot 1:10000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000, Immunoblotting, Immunohistochemistry Free-Floating, Knockdown Validated
Application Notes	This 160kDa Neurofilament Medium antibody is useful for ICC/IF, IHC and Western blot. In Western blot this antibody detects a band at ~145-160kDa. Knockdown validation (PMID: 31811140). Use in immunoblotting reported in scientific literature (PMID:31811140).

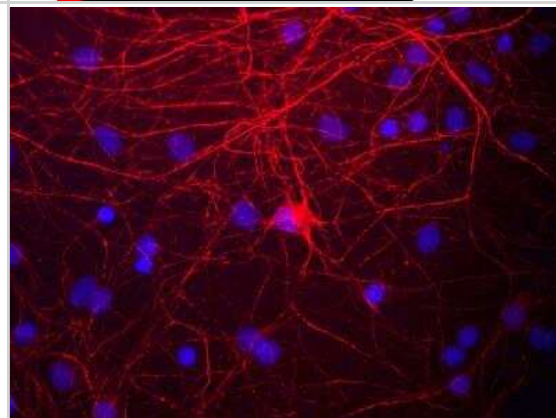


Images

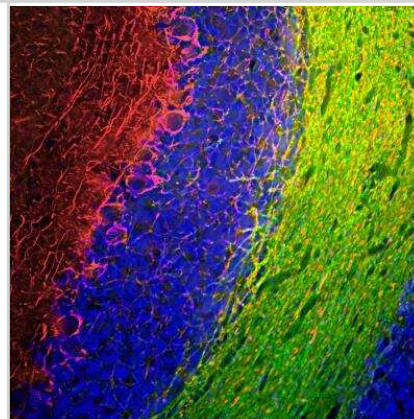
Western Blot: NF-M Antibody [NB300-222] - Western blot analysis of different neuronal tissue and cell lysates using chicken pAb to NF-M, NB300-222, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] NIH/3T3 cells, [7] HEK293, [8] HeLa, [9] SH-SY5Y, and [10] C6 cells. Strong band at 145kDa corresponds to rodent NF-M, and about 160kDa band corresponds to human NF-M protein, visible in SHSY-5Y and HEK293 cells which have neuronal properties. NF-M is not expressed in HeLa and other cell lines tested.



Immunocytochemistry/Immunofluorescence: NF-M Antibody [NB300-222] - 160kDa Neurofilament Medium Antibody [NB300-222] - View of mixed neuron/glia cultures stained with NB300-222 (red). The NF-M protein is assembled into neurofilaments which are found throughout the axons, dendrites and perikarya of these cells.



Immunohistochemistry Free-Floating: NF-M Antibody [NB300-222] - Immunofluorescent analysis of rat cerebellum section stained with chicken pAb to NF-M, NB300-222, dilution 1:1,000 in red, and costained with mouse mAb to CNPase, dilution 1:500, in green. The blue is DAPI staining of nuclear DNA. Following transcathal perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45uM, and free floating sections were stained with above antibodies. The NF-M antibody labels the axons of basket cells and other neurons, while the CNP antibody stains oligodendrocytes, cells that form the myelin sheathes around axons.



Publications

Tribble JR, Otmani A, Kokkali E et al. Retinal Ganglion Cell Degeneration in a Rat Magnetic Bead Model of Ocular Hypertensive Glaucoma Translational Vision Science & Technology 2021-01-12 [PMID: 33510960] (Immunocytochemistry/ Immunofluorescence)

Rutigliani C, Tribble JR, HagstrOm A et al. Widespread retina and optic nerve neuroinflammation in enucleated eyes from glaucoma patients Acta neuropathologica communications 2022-08-19 [PMID: 35986368] (IHC-P, Human)

Details:

Dilution used 1:400, optic nerve head sections

Batool S, Akhter B, Zaidi J Et al. Neuronal Menin Overexpression Rescues Learning and Memory Phenotype in CA1-Specific alpha 7 nAChRs KD Mice Cells 2021-11-24 [PMID: 34943798] (ICC/IF, Mouse)

Batool S, Zaidi J, Akhter B et al. Spatiotemporal Patterns of Menin Localization in Developing Murine Brain: Co-Expression with the Elements of Cholinergic Synaptic Machinery Cells 2021-05-16 [PMID: 34065662] (ICC/IF, Mouse)

Iqbal F, Pehar M, Thompson AJ et al. A synthetic peptide rescues rat cortical neurons from anesthetic-induced cell death, perturbation of growth and synaptic assembly Scientific reports 2021-02-25 [PMID: 33633281] (ICC/IF, Rat)

Casci I, Krishnamurthy K, Kour S Muscblind acts as a modifier of FUS toxicity by modulating stress granule dynamics and SMN localization Nat Commun 2019-12-06 [PMID: 31811140] (IB, ICC/IF, KD, Human, Drosophila, Rat)

Chu TH, Cummins K, Sparling JS et al. Axonal and myelinic pathology in 5xFAD Alzheimer's mouse spinal cord. PLoS ONE 2017-11-27 [PMID: 29176903] (Mouse)

Getz AM, Xu F, Visser F et al. Tumor suppressor menin is required for subunit-specific nAChR a5 transcription and nAChR-dependent presynaptic facilitation in cultured mouse hippocampal neurons. Sci Rep 2017-05-11 [PMID: 28496137] (ICC/IF, Mouse)

Xu F, Armstrong R, Urrego D et al. The mitochondrial division inhibitor Mdivi-1 rescues mammalian neurons from anesthetic-induced cytotoxicity Mol Brain 2016-03-24 [PMID: 27009068] (ICC/IF, Rat)

Portmann-Lanz CB, Schoeberlein A, Portmann R et al. Turning placenta into brain: placental mesenchymal stem cells differentiate into neurons and oligodendrocytes. Am J Obstet Gynecol. 2010-03-01 [PMID: 20060088] (ICC/IF, Human)

Gold M, Mengel D, Roskam S, Dodel R, Bach JP. Mechanisms of action of naturally occurring antibodies against beta-amyloid on microglia. J Neuroinflammation 2013-01-14 [PMID: 23317003] (WB, Mouse)



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Products Related to NB300-222

NBL1-13578	NF-M Overexpression Lysate
BAF010	Goat anti-Chicken IgY Secondary Antibody [Biotin]
NB7276	Goat anti-Chicken IgM Heavy Chain Secondary Antibody
NBP1-87753PEP	NF-M Recombinant Protein Antigen

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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