

Anti-Neurofilament medium polypeptide (NF-M) Antibody (3H11)



Product Details

Available Variants	100 µg (SKU:M-1394-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	3H11
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	Flow, ICC, IF, IHC, WB
Dilution Ranges	WB: 1:5000 ICC: 1:2000
Species Reactivity	Bovine, Chicken, Horse, Human, Mouse, Pig, Rat
Immunogen	This antibody has been made against a recombinant fusion protein containing the extreme C-terminus of rat NF-M (amino acids 677-845) expressed in and purified from E. coli. The epitope is localized to within the last 56 amino acids at the extreme C-terminus of rat NF-M, the so-called KE segment which is highly conserved between NF-M molecules from different species.
Specificity	Species cross-reactivity includes human, rat, mouse, cow, pig, horse and chicken.
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. Store lyophilized antibody at 2-8°C After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid

freeze-thaw cycles. Store at 4°C for up to one month for short term storage and frequent use.

UniProt ID	P07197
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images

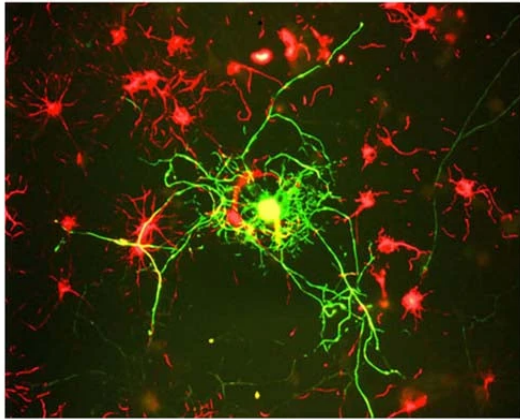
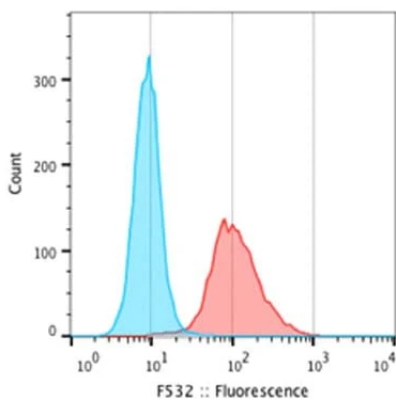
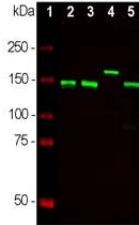
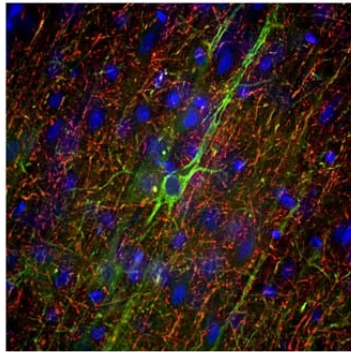


Image of a neuron and surrounding cells in cerebral culture, derived from adult rats, by **Immunofluorescence and Immunocytochemistry**. The cells were stained with M-1394-100, Neurofilament medium polypeptide (NF-M), Clone 3H11, Mouse mAb, (green), and co-stained with product R-1379-50, Internexin alpha, Rabbit pAb, (red). Mature neurons can be identified by their morphology and because they stain strongly with antibodies to NF-L, NF-M and NF-H (green). The surrounding mitotic neuronal progenitor cells (red) express many other neuronal markers.



Analysis by **flow cytometry** of Neurofilament medium polypeptide (NF-M), (endogenous) expression in mouse neural progenitor cells differentiated from mES and fixed overnight in 70% ethanol (red curve). PE-labelled goat anti-mouse IgG was used as secondary antibody (Blue curve) and negative control processed with secondary antibody only. Flow cytometry data and results were generated using Orflo MoxiflowTM instrument and protocols.



Left: Analysis by **Immunofluorescence and Immunohistochemistry** of Neurofilament medium polypeptide (NF-M) expression in rat frontal cortex section. Section was stained with M-1394-100, Neurofilament medium polypeptide (NF-M), Clone 3H11, Mouse mAb, (green, 1:5000), and co-stained with product C-1386-50, Neurofilament heavy polypeptide (NF-H), Chicken pAb (red, 1:5000). IHC Method: Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post-fixed for 24 hours, cut into 45 μ m sections, and free-floating sections were stained. The NF-M mouse antibody labels neuronal cell bodies and dendrites of pyramidal neurons, as well as dendrites and axons of other neuronal cells, while the chicken NF-H antibody stains the network of neuronal axons only. **Right:** Analysis by **western blot** of NF-M expression in neuronal tissue lysates using M-1394-100 (green, 1:10,000) with a band at approx 145kDa (rodent NF-M) and 160kDa (bovine NF-M). Lane 1: protein standard; Lane 2: rat spinal cord; Lane 3: mouse spinal cord; Lane 4: cow spinal cord; Lane 5: rat sciatic nerve.

Product Page URL: www.antibodiesinc.com/products/anti-neurofilament-medium-polypeptide-nf-m-antibody-3h11-m-1394-100



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