

Anti-Neurofilament light polypeptide (NF-L) Antibody (DA2)



Product Details

Available Variants	50 µg (SKU:M-1391-50)
Conjugate	Unconjugated
Isotype	IgG1
Clone	DA2
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 IHC: 1:2000 ICC: 1:1000
Species Reactivity	Bovine, Horse, Human, Mouse, Pig, Rat
Immunogen	The antibody has been made against enzymatically dephosphorylated, full length, pig NF-L protein. The antibody binding epitope has been mapped to a short peptide in the C-terminal "tail" region of the molecule within the sequence YYTSHVQEEQIEVEETIEA, amino acids 441-460 of the human sequence.
Specificity	Species cross-reactivity includes human, rat, mouse, cow, pig and horse.
Storage	Spin vial briefly before opening. Reconstitute with 50 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	P07196
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

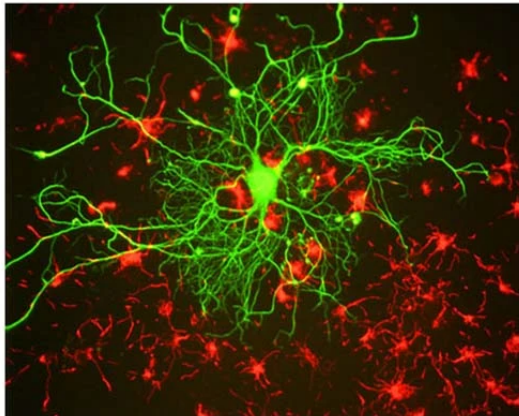
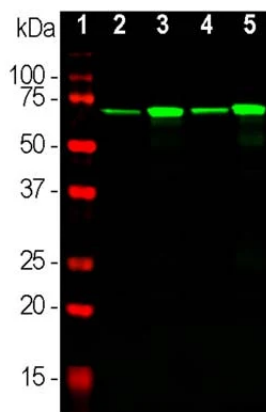
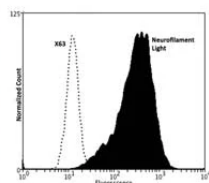
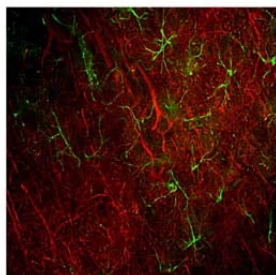


Image of a neuron in cell culture, derived from adult rat cortex, by **Immunofluorescence and Immunohistochemistry**. The large middle cell is stained with M-1391-50, Neurofilament light polypeptide (NF-L), Clone DA2, Mouse mAb, (green), and co-stained with product R-1379-50, Alpha-internexin, Rabbit pAb, (red). The culture was grown under conditions to induce neuronal survival and differentiation, and product R-1379-50 highlights a network of small neurons at early stages of differentiation.



Analysis by **western blot** of NF-L expression in different tissue lysates with M-1391-50, Neurofilament light polypeptide (NF-L), Clone DA2, Mouse mAb, (green, 1:5,000) with strong banding at 68-70kDa corresponding to the NF-L protein. Lane 1: protein standard (red); Lane 2: rat brain; Lane 3: rat spinal cord; Lane 4: mouse brain; Lane 5: mouse spinal cord.



Left: Image of a rat frontal cortex section by **Immunofluorescence and Immunohistochemistry**. The section was stained with M-1391-50, Neurofilament light polypeptide (NF-L), Clone DA2, Mouse mAb, (red, 1:500), and co-stained with product C-1373-50, Glial fibrillary acidic protein (GFAP), Chicken pAb, (green, 1:5,000). IHC Method: Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post-fixed for 24 hours, cut into 45 um sections, and free-floating section was stained. The NF-L antibody labels cell bodies and processes of pyramidal neurons, as well as dendrites and axons of other neuronal cells, while the GFAP antibody stains the network of glial cells. **Right:** Analysis of Neurofilament light polypeptide (NF-L), expression in human prostate cancer cell line DU145 by **flow cytometry**. Fixing and Permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, Blocking: 200 µg/mL Normal Sheep IgG (20 minutes), Primary antibody: Mouse Monoclonal antibody to Neurofilament Light (cat # M-1391-50, 2 µg per $\sim 10^6$ cells) for 30 minutes at room temperature, Secondary antibody: Goat anti-mouse PE labeled secondary antibody (1:100 fold dilution) with incubation for 20 minutes in dark at room temperature. Non-specific Control IgG, clone X63 (cat # M-1249-200) was used as negative control under same conditions (black dashed). Flow cytometry data and results were generated using Orflo Moxiflow™ instrument and protocols.

Product Page URL: www.antibodiesinc.com/products/anti-neurofilament-light-polypeptide-nf-l-antibody-da2-m-1391-50



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