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PRODUCT DATASHEET

Anti-Neurofilament light polypeptide (NF-L) Antibody

Product Details

Available Variants	50 µL (SKU:C-1390-50)
Conjugate	Unconjugated
Isotype	IgY
Host Species	Chicken
Format	IgY preparation
Physical State	Lyophilized
Buffer	Lyophilized IgY preparation, with sodium azide.
Applications	ICC, IF, IHC, WB
Dilution Ranges	WB: 1:5000-1:10000 IHC: 1:1000-1:5000 ICC: 1:1000-1:5000
Species Reactivity	Bovine, Horse, Human, Mouse, Pig, Rat
Immunogen	The antibody has been made against a preparation of recombinant full length human NF-L. The antibody binds NF-L from a variety of species including human, rat and mouse.
Specificity	Species cross-reactivity includes human, rat, mouse, cow and pig. Predicted to react with other mammalian tissues due to sequence homology.
Storage	Spin vial briefly before opening. Reconstitute with 50 µL sterile-filtered, ultrapure water. 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

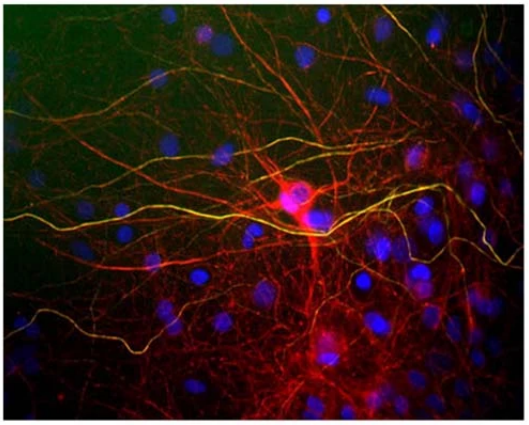
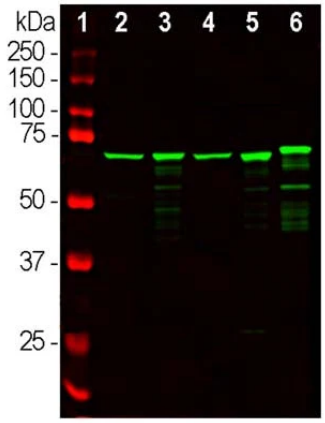


Image of mixed neuron and glial cultures stained by **Immunofluorescence and Immunocytochemistry**. The cultures were stained with C-1390-50, Neurofilament light polypeptide (NF-L), Chicken pAb (red), and co-stained with product R-1388-50, Neurofilament heavy polypeptide phosphorylated (pNF-H), Rabbit pAb, (green). The Neurofilament Light (NF-L) protein is assembled into neurofilaments which are found throughout the axons, dendrites and perikarya of these cells. In contrast, the phosphorylated Neurofilament Heavy (NF-H) has a much more restricted expression pattern, being found only in developed axonal neurofilaments. Since both proteins are found in neurofilaments, the red and green patterns overlap, so that neurofilaments containing NF-L and phosphorylated NF-H appear yellowish. In contrast neurofilaments containing only NF-L appear red.



Analysis by **western blot** of NF-L expression in different tissue lysates probed with C-1390-50, Neurofilament light polypeptide (NF-L), Chicken pAb, (green, 1:20,000) 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; Lane 6: cow spinal cord. *Note* NF-L proteins are known to have slightly different apparent SDS-PAGE molecular weights across species.

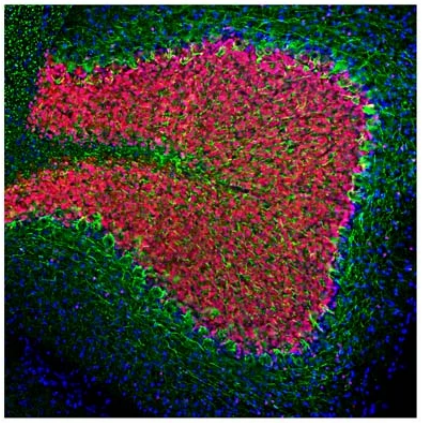


Image of a rat cerebellum section by **Immunofluorescence and Immunohistochemistry**. The section was stained with C-1390-50, Neurofilament light polypeptide (NF-L), Chicken pAb, (green, 1:2,000), and co-stained with product M-377-100, NeuN/Fox3, Clone 1B7, Mouse mAb, (red, 1:5000). IHC Method: Following transcardial perfusion of rat with 4% PFA, brain was post fixed for 24 hours, cut to 45 uM, and free-floating sections were stained. The NF-L antibody stains perikarya and processes of neuronal cells, particularly strongly the axons of basket cells, while product M-377-100 stains the nuclei and proximal cytoplasm of neurons.