www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-Neurofilament light polypeptide (NF-L) Antibody

Product Details

Available Variants	50 µL (SKU:R-1392-50)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Rabbit
Format	Whole serum
Physical State	Lyophilized
Buffer	Lyophilized with sodium azide.
Applications	ICC, IF, IHC, WB
Dilution Ranges	WB: 1:10000-1:15000 IHC: 1:5000 ICC: 1:2000-1:5000
Species Reactivity	Bovine, 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.
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 UniProt Summary: Neurofilaments usually contain three intermediate filament proteins: NEFL, NEFM, and NEFH which are involved in the maintenance of neuronal caliber. May additionally cooperate with the neuronal intermediate filament proteins PRPH and INA to form neuronal filamentous networks.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	4747

Product Images

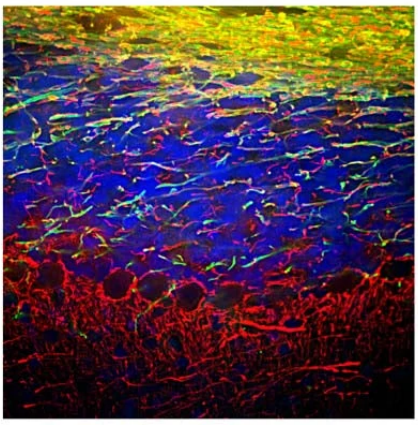
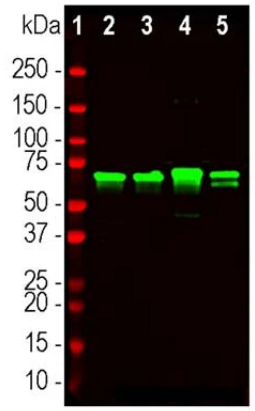


Image of a mouse cerebellum section by **Immunofluorescence and Immunohistochemistry**. The section was stained with R-1392-50, Neurofilament light polypeptide (NF-L), Rabbit pAb, (red, 1:5,000), and co-stained with product C-1383-50, Myelin basic protein, Chicken pAb, (green, 1:5,000). Method: Following transcardial perfusion of mouse with 4% paraformaldehyde, brain was post-fixed for 24 hours, cut to 45 um, and free-floating sections were stained. The NF-L antibody labels dendrites and axons of neuronal cells, and the MBP antibody stains myelin sheathes around axons.



Analysis by **western blot** of NF-L expression in different tissue lysates with R-1392-50, Neurofilament light polypeptide (NF-L), Rabbit 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.

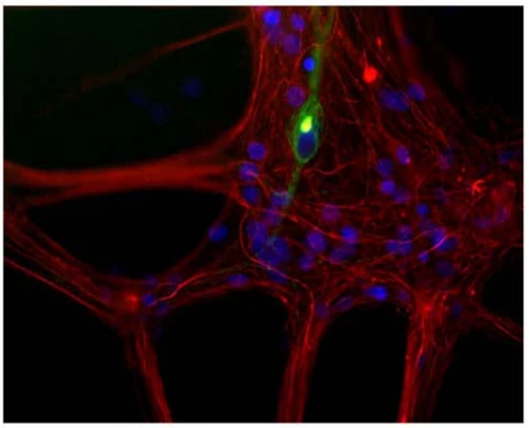


Image of mixed neuron and glial cultures, from a newborn rat brain, stained by **Immunofluorescence and Immunocytochemistry**. These cultures were stained with R-1392-50, Neurofilament light polypeptide (NF-L), Rabbit pAb, (red) and co stained with product M-1400-500, Peripherin, Clone 7C5, Mouse mAb, (green). A class of large neurons, like the one in the middle of this image, contain Peripherin, while the majority of neurons and their processes contain NF-L and not Peripherin. Interestingly, the Periperin positive cells often contain a cytoplasmic inclusion next to the nucleus which stains for both peripherin and NF-L, and so appears golden in this kind of image. The blue channel reveals the localization of DNA