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PRODUCT DATASHEET

Anti-Neurofilament light polypeptide (NF-L), DG-Sensor™ Antibody

Product Details

Available Variants	100 µg (SKU:R-2124-100)
Conjugate	Unconjugated
Isotype	IgG
Host Species	Rabbit
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Affinity-purified
Applications	ELISA, ICC, IF, IHC, WB
Dilution Ranges	WB: 1:1000-1:2000 ICC: 1:1000
Species Reactivity	Bovine, Human, Mouse, Pig, Rat
Immunogen	The antibody has been made against a proprietary recombinant construct containing amino acids of human NF-L expressed in and purified from E Coli.
Specificity	Species cross-reactivity includes human, rat, mouse, cow, and pig. These are antibodies which recognize epitopes in a small segment of the neurofilament NF-L subunit which are normally not accessible to antibodies but which became available on degeneration in natural or native conditions. Under reduced or proteinase treated tissues or Western blot, these antibodies are all specific for NF-L from a variety of species.
Storage	Spin vial briefly before opening. Reconstitute with 100 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

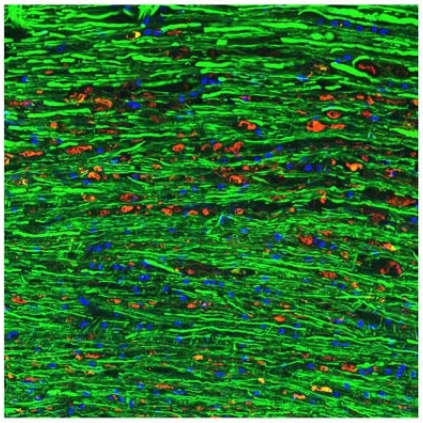
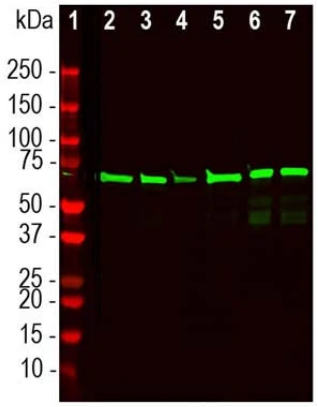


Image of a rat spinal cord section with a three-day-old midline C4 contusion injury by **Immunofluorescence and Immunohistochemistry**. The section was stained with R-2124-100, Neurofilament light polypeptide (NF-L) DG-Sensor™, Rabbit pAb, (red, 1:1,000) and co-stained with product M-1394-100, Neurofilament medium polypeptide (NF-M), Clone 3H11, Mouse mAb, (green, 1:1000). Product R-2124-100 does not stain the undamaged axons that M-1394-100 strongly stains (green). Linear arrays of swollen profiles originating from damaged axons, on the other hand, are strongly positive for R-2124-100, but not for the M-1394-100. In these regions, the M-1394-100 epitope, which is located in the C-terminal "tail" of NF-M, has been either removed or destroyed.



Analysis by **western blot** of NF-L expression in different tissue lysates with R-2124-100, Neurofilament light polypeptide (NF-L), DG-Sensor™, Rabbit pAb, (green, 1:2,000) with a band at approx 68-70kDa. 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: bovine spinal cord; Lane 7: pig spinal cord. DG-Sensor™ antibodies detect NF-L in denatured protein lysates regardless of degeneration state.