

Anti-Neurofilament heavy polypeptide, phosphorylated, (pNF-H) Antibody



Product Details

Available Variants	50 µL (SKU:R-1388-50)
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: 1:10000-1:25000 IHC: 1:1000-1:5000 ICC: 1:1000-1:5000
Species Reactivity	Bovine, Horse, Human, Mouse, Pig, Rat
Immunogen	This antibody has been made against biochemically isolated NF-H purified from bovine spinal cord.
Specificity	Species cross-reactivity includes human, rat, mouse, cow, pig and horse. This antibody reacts with phosphorylated NF-H and is seen as a band at approx 200 kDa in WB. Predicted to react with other mammals due to sequence homology.
Molecular Weight	200 kDa
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	<u>P12036</u>
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

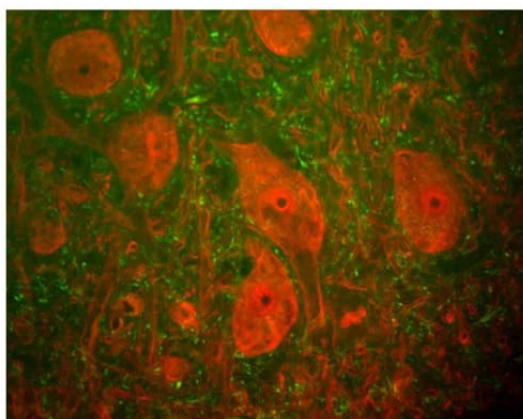


Image of a rat spinal cord section by **Immunofluorescence and Immunohistochemistry**. The section was stained with R-1388-50, Neurofilament heavy polypeptide, phosphorylated (pNF-H), Rabbit pAb, (green) and co-stained with product M-1407-100, Ubiquitin carboxyl-terminal hydrolase isozyme L1 (UCHL1), Mouse mAb, (red). The neurofilament NF-H antibody binds primarily to phosphorylated axonal forms of NF-H, and so stains axons coursing between the large UCHL1 positive neurons. These large cells are a-motorneurons and UCHL1 protein is a major component of the perikarya and dendrites of these cells.

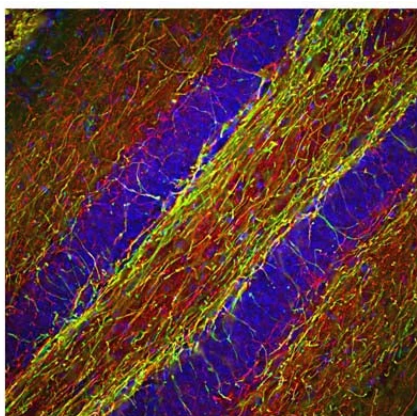
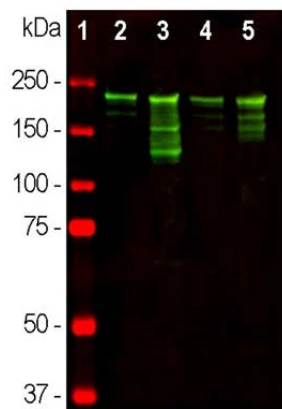


Image of a mouse hippocampus section by **Immunofluorescence and Immunohistochemistry**. The section was stained with R-1388-50, Neurofilament heavy polypeptide, phosphorylated, (pNF-H), Rabbit pAb, (red, 1:2,000) and co-stained with product M-1384-50, Myelin basic protein (MBP), Clone 7G7, Mouse mAb,(green, 1:5,000). The blue is DAPI staining of nuclear DNA. Method: Following transcardial perfusion with 4% paraformaldehyde, brain was post-fixed for 24 hours, cut to 45 um, and free-floating sections were stained. The NF-H antibody labels a network of axons of different neurons, while the MBP antibody stains myelin sheath around these axons.



Analysis by **western blot** of pNF-H expression in tissue lysates with R-1388-50, Neurofilament heavy polypeptide, phosphorylated, (pNF-H), Rabbit pAb (green 1:10,000) with a strong band at sprox 220 kDa corresponding to the phosphorylated axonal form of the NF-H subunit. Smaller proteolytic fragments of NF-H are also detected with this antibody. Lane 1: protein standard; Lane 2: rat brain; Lane 3: rat spinal cord; Lane 4: mouse brain; Lane 5: mouse spinal cord lysate.

Product Page URL: www.antibodiesinc.com/products/anti-neurofilament-heavy-polypeptide-phosphorylated-pnf-h-antibody-r-1388-50



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