

Mouse Neurofilament NF-L Monoclonal Antibody | anti-NF-L antibody

Neurofilament NF-L

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76635	Mouse	Human, Mouse, Rat, Bovine, Porcine	Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry

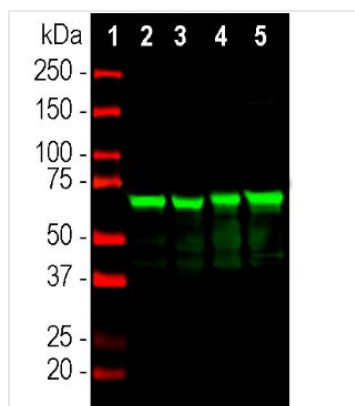
PRODUCT SYNONYMS

Neurofilament NF-L; Monoclonal Antibody; anti-NF-L antibody

PRODUCT SPECIFICATIONS

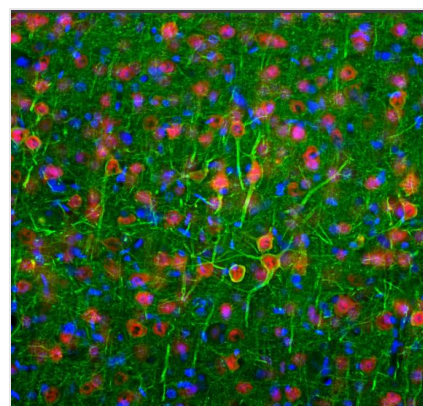
Host	Mouse
Reactivity	Human, Mouse, Rat, Bovine, Porcine
Clonality	Monoclonal
Isotype	Mouse IgG
Form/Format	Affinity Purified antibody Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3
Applicable Applications for anti-NF-L antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	C-terminal peptide of human NF-L protein, GEEEDTKESEEEEEKKEESAGEEQVAKKKD with an N-terminal C for coupling to KLH
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2-8 degree C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of spinal cord lysates from different species using mouse monoclonal antibody to NF-L dilution 1:5,000 in green: [1] protein standard (red), [2] rat, [3] mouse, [4] pig, and [5] cow spinal cord. Strong band at about 70kDa corresponds to the NF-L protein.



IF (Immunofluorescence)

Immunofluorescent analysis of a rat frontal cortex section stained with mouse monoclonal antibody to NF-L dilution 1:2,000 in green, and costained with rabbit polyclonal antibody to FOX3/NeuN dilution 1:2,000 in red.

ADDITIONAL INFORMATION

Related Product Information for anti-NF-L antibody	Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H, though other filament proteins may be included also. The major function of neurofilaments is likely to control the diameter of large axons. NF-L is the neurofilament light or low molecular weight polypeptide and runs on SDS-PAGE gels at 68-70kDa with some variability across species. Antibodies to NF-L like MCA-6H112 are useful for identifying neuronal cells and their processes in cell culture and sectioned material. NF-L antibody can also be useful for the visualization of neurofilament rich accumulations seen in many neurological diseases, such as Lou Gehrig's disease (ALS), giant axon neuropathy, Charcot-Marie Tooth disease and others. Much interest has recently been focused on the detection of NF-L released from neurons into blood and CSF as a surrogate marker of primarily axonal loss in a variety of types of CNS injury and degeneration.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62511894
NCBI GeneID	4747
UniProt Accession #	P07196; Q16154; Q8IU72; B9ZVN2
Molecular Weight	543
NCBI Official Full Name	Neurofilament light polypeptide
NCBI Official Synonym Full Names	neurofilament, light polypeptide
NCBI Official Symbol	NEFL
NCBI Official Synonym Symbols	NFL; NF-L; NF68; CMT1F; CMT2E; PPP1R110
NCBI Protein Information	neurofilament light polypeptide; neurofilament subunit NF-L; neurofilament triplet L protein; neurofilament protein, light chain; neurofilament, light polypeptide 68kDa; light molecular weight neurofilament protein; protein phosphatase 1, regulatory subun
UniProt Protein Name	Neurofilament light polypeptide
UniProt Gene Name	NEFL
UniProt Synonym Gene Names	NF68; NFL; NF-L
UniProt Entry Name	NFL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/neurofilament-nf-l-antibody-immunofluorescence-immunohistochemistry-western-blot-immunocytochemistry-elisa/76635>