

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

Neurofilament NF-L

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76723	Mouse	Human, Mouse, Rat, Bovine, Porcine, Equine	Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry

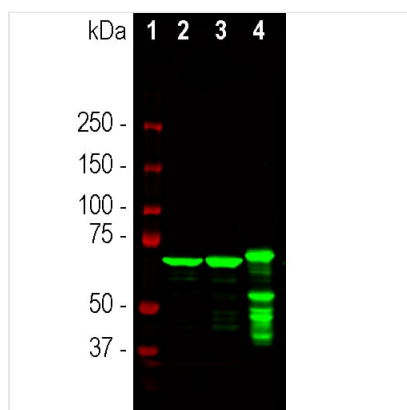
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

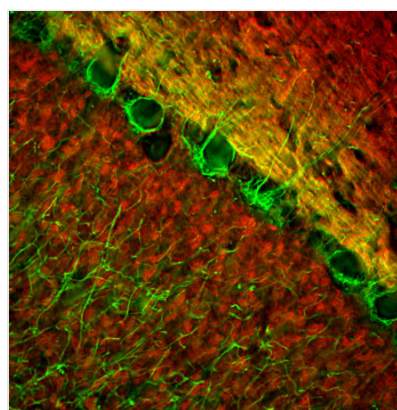
Host	Mouse
Reactivity	Human, Mouse, Rat, Bovine, Porcine, Equine
Clonality	Monoclonal
Isotype	Mouse IgG1
Form/Format	Liquid. Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3
Applicable Applications for anti-NF-L antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Pig NF-L expressed in and purified from E coli.
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for sixmonths without detectable loss of activity. The antibody can be stored at 2 degree - 8 degree C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of different tissue lysates using mouse mAb to NF-L, AAA76723, dilution 1:20,000 in green: [1] protein standard, [2] rat brain, [3] mouse brain and [4] cow cerebellum. Strong band at about 68-70kDa corresponds to NF-L protein, with the cow protein appearing slightly larger in molecular size as expected. Low molecular weight bands detected in cow brain sample are likely post mortem proteolytic forms of NF-L.



IF (Immunofluorescence)

Immunofluorescent analysis of cow cerebellum section stained with mouse mAb to NF-L, AAA76723, dilution 1:2,000 in green, and costained with chicken pAb to VLP1 in red. Blue is Hoechst staining of nuclear DNA. AAA76723 labels dendrites and axons of neuronal cells in the granular layer (lower left) and prominent basket cell axons surrounding the large Purkinje neurons. The VLP1 antibody reveals protein expressed in granule cells and in synapses of the molecular layer of the cerebellum.

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, but in certain cell types and during development alpha-internexin, peripherin, nestin and vimentin may be included also. 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 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 many other. The antibody was made against a preparation of recombinant full length human NF-L protein expressed in and purified from E coli. This antibody is known to bind NF-L from a variety of species including human, rat and mouse, and the epitope is 100% conserved in all mammalian NF-L sequences, so this antibody will have wide applicability.
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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.