

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

Neurofilament NF-L

| CATALOG # | HOST  | REACTIVITY                                 | APPLICATIONS                                                                |
|-----------|-------|--------------------------------------------|-----------------------------------------------------------------------------|
| AAA76636  | Mouse | Human, Mouse, Rat, Bovine, Porcine, Equine | Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry |

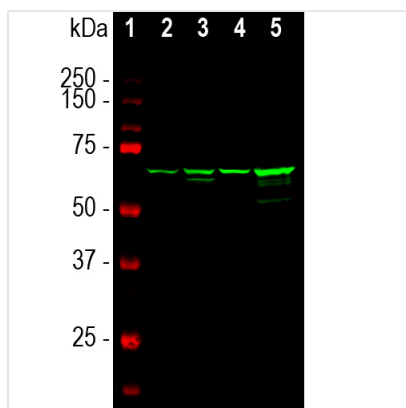
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

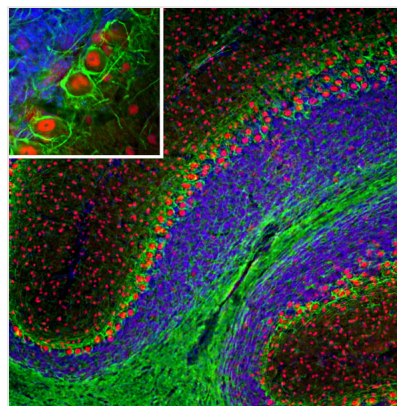
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|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                            |
| Reactivity                                     | Human, Mouse, Rat, Bovine, Porcine, Equine                                                                                                                                                                                                                                       |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                       |
| Isotype                                        | Mouse IgG                                                                                                                                                                                                                                                                        |
| Form/Format                                    | Affinity Purified antibody<br>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                                      | Full length native protein purified from pig spinal cord                                                                                                                                                                                                                         |
| 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 different tissue lysates using mouse mAb to NF-L dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, and [5] mouse spinal cord. The strong band at 68kDa corresponds to the NF-L protein.



#### IF (Immunofluorescence)

Immunofluorescent analysis of a section of mouse cerebellum stained with mouse mAb to NF-L dilution 1:5,000 in green, and costained with chicken pAb to FOX2 dilution 1:2,000 in red. The blue is DAPI staining of nuclear DNA.

ADDITIONAL INFORMATION

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|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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