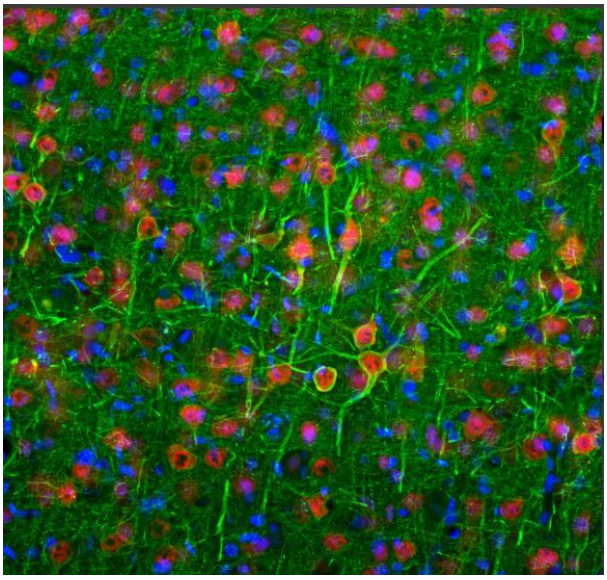
NEUROMICS

Neurofilament NF-L Data Sheet

Catalog Number:	MO22193	**Host:**	Mouse
Product Type:	Mouse Monoclonal IgG	**Species Reactivity:**	Human, Rat, Mouse, Cow, and Pig
Immunogen Sequence:	C-terminal peptide of human NF-L protein, GEEEDTKESEEEEKKEESAGEEQVAKKKD with an N-terminal C for coupling to KLH	**Format:**	Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3
Applications:	Immunohistochemistry: 1:1,000 Immunofluorescent: 1:1,000 Immunocytochemistry: 1:1,000 Western Blot: 1:5,000 Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

Application Notes

Description/Data:
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.



Images: Immunofluorescent analysis of a rat frontal cortex section stained with mouse 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.

FOR RESEARCH USE ONLY

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