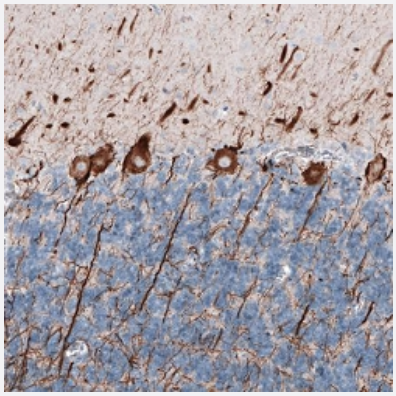
Sm Size

NEFL monoclonal antibody, clone CL4729

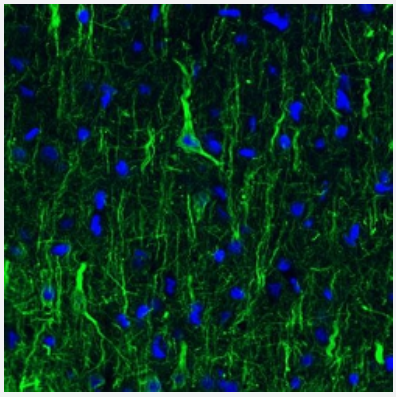
Catalog # MAB15716 Size 25 uL, 100 uL

Applications



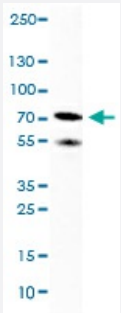
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebellum shows strong cytoplasmic immunoreactivity in cell bodies and proximal dendrites of Purkinje cells.



Immunofluorescence

Immunofluorescence staining of rat cerebral cortex shows strong immunoreactivity in neuronal cell bodies and processes.



Western Blot (Tissue lysate)

Western Blot (Tissue lysate) analysis of human cerebral cortex.

Specification

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Product Description	Mouse monoclonal antibody raised against partial recombinant human NEFL.
Immunogen	Recombinant protein corresponding to human NEFL.
Sequence	SSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVSSSLSVRRSYSSSSGSLMP SLENLDLSQVAAISNDLKSIRTQEKAQLQDLNDRF
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10000-1:20000) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebellum shows strong cytoplasmic immunoreactivity in cell bodies and proximal dendrites of Purkinje cells.

- Immunofluorescence

  Immunofluorescence staining of rat cerebral cortex shows strong immunoreactivity in neuronal cell bodies and processes.

- Western Blot (Tissue lysate)

  Western Blot (Tissue lysate) analysis of human cerebral cortex.

Gene Info — NEFL

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Entrez GeneID	4747
Protein Accession#	P07196
Gene Name	NEFL
Gene Alias	CMT1F, CMT2E, FLJ53642, NF-L, NF68, NFL
Gene Description	neurofilament, light polypeptide
Omim ID	162280 607684 607734
Gene Ontology	Hyperlink
Gene Summary	Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuron al caliber. They may also play a role in intracellular transport to axons and dendrites. This gene en codes the light chain neurofilament protein. Mutations in this gene cause Charcot-Marie-Tooth dis ease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are ch aracterized by distinct neuropathies. A pseudogene has been identified on chromosome Y. [provi ded by RefSeq
Other Designations	light molecular weight neurofilament protein|neurofilament protein, light chain|neurofilament subuni t NF-L|neurofilament triplet L protein|neurofilament, light polypeptide 68kDa|neurofilament-light

Pathway

- Amyotrophic lateral sclerosis (ALS)

Disease

- Genetic Predisposition to Disease
- Kidney Failure
- Multiple Sclerosis
- Parkinson disease

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