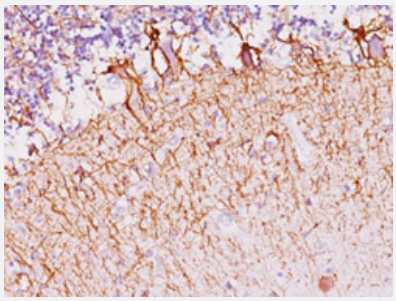
NEFH/NEFL monoclonal antibody, clone SPM145

Catalog # MAB13212 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebellum with NEFH/NEFL monoclonal antibody, clone SPM145 (Cat # MAB13212).

Specification

Product Description	Mouse monoclonal antibody raised against native human NEFH/NEFL.
Immunogen	Semi-purified NEFH/NEFL from human spinal cord.
Host	Mouse
Theoretical MW (kDa)	200, 68
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG1
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells in 0.1 mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.

Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebellum with NEFH/NEFL monoclonal antibody, clone SPM145 (Cat # MAB13212).

- Flow Cytometry

Gene Info — NEFH

Entrez GeneID	4744
Protein Accession#	P12036;P07196
Gene Name	NEFH
Gene Alias	NFH
Gene Description	neurofilament, heavy polypeptide
Omim ID	105400 162230
Gene Ontology	Hyperlink
Gene Summary	Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber . They may also play a role in intracellular transport to axons and dendrites. This gene encodes th e heavy neurofilament protein. This protein is commonly used as a biomarker of neuronal damage and susceptibility to amyotrophic lateral sclerosis (ALS) has been associated with mutations in thi s gene. [provided by RefSeq
Other Designations	neurofilament triplet H protein|neurofilament, heavy polypeptide 200kDa

Gene Info — NEFL

Entrez GeneID	4747
Protein Accession#	P12036;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)
- Amyotrophic lateral sclerosis (ALS)

Disease

- Amyotrophic lateral sclerosis
- Dominance
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Kidney Failure
- Motor Neuron Disease
- Multiple Sclerosis
- Multiple Sclerosis
- Parkinson disease
- Schizophrenia