

Neurofilament light polypeptide/NF-L Rabbit mAb

Catalog # AP75020

Product Information

Application	WB, IHC-P, IP
Primary Accession	P08551
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	61508

Additional Information

Gene ID	18039
Other Names	Nefl
Dilution	WB~~1:500-1:1000 IHC-P~~N/A IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

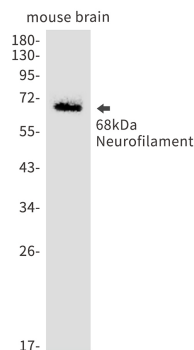
Name	Nefl
Synonyms	Nf68, Nfl
Function	Neurofilaments usually contain three intermediate filament proteins: NEFL, NEFM, and NEFH which are involved in the maintenance of neuronal caliber. May additionally cooperate with the neuronal intermediate filament proteins PRPH and INA to form neuronal filamentous networks (PubMed: 22723690).
Cellular Location	Cell projection, axon. Cytoplasm, cytoskeleton
Tissue Location	Expressed in the sciatic nerve (at protein level).

Background

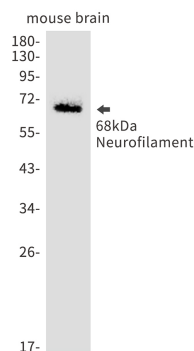
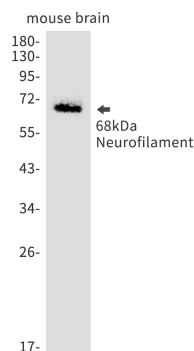
Enables protein-macromolecule adaptor activity. A structural constituent of postsynaptic intermediate

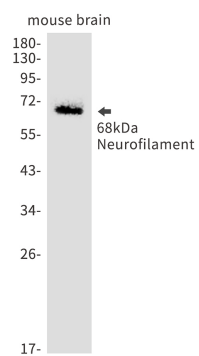
filament cytoskeleton. Involved in intermediate filament bundle assembly; postsynaptic modulation of chemical synaptic transmission; and regulation of synapse maturation. Acts upstream of or within several processes, including cytoskeleton organization; neuron projection development; and regulation of axonogenesis. Located in axon and neurofilament. Is active in several cellular components, including Schaffer collateral - CA1 synapse; cholinergic synapse; and intermediate filament cytoskeleton. Is expressed in several structures, including alimentary system; central nervous system; eye; limb; and peripheral nervous system ganglion. Used to study Charcot-Marie-Tooth disease type 2E. Human ortholog(s) of this gene implicated in Charcot-Marie-Tooth disease (multiple); amyotrophic lateral sclerosis; and invasive ductal carcinoma. Orthologous to human NEFL (neurofilament light chain).

Images



Western blot analysis of 68kDa Neurofilament in mouse brain lysates using Neurofilament light polypeptide antibody.





Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.