

Product Name: KD-Validated NEFL Mouse Monoclonal Antibody**Catalog #: KVA01850**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000
Molecular Weight	Calculated MW: 61.5kDa

Antigen Information

Gene Name	NEFL
Alternative Names	NEFL; Neurofilament Light Chain; NF68; NFL; PPP1R110; CMT1F; CMT2E; Protein Phosphatase 1, Regulatory Subunit 110; Neurofilament, Light Polypeptide 68kDa; Neurofilament Light Polypeptide; Neurofilament Triplet L Protein; NF-L; Light Molecular Weight Neurofilament Protein; Neurofilament Protein, Light Chain; Neurofilament, Light Polypeptide; 68 KDa Neurofilament Protein; Neurofilament Subunit NF-L; Neurofilament Light; CMTDIG
Gene ID	4747.0
SwissProt ID	P07196
Immunogen	Recombinant protein of human NEFL

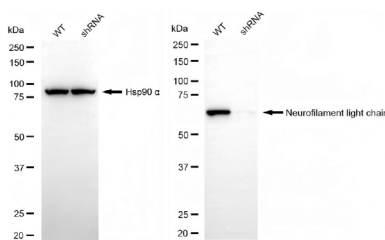
Background

Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the light chain neurofilament protein. Mutations in this gene cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies. A pseudogene has been identified on chromosome Y. [provided by RefSeq, Oct 2008]

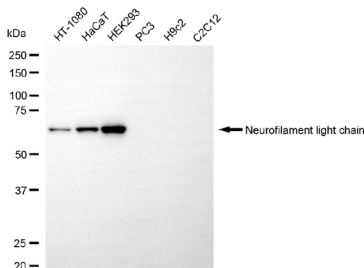
Research Area

Developmental Biology, Neuroscience, Signal Transduction, Stem Cells

Image Data



Western blotting analysis using neurofilament light chain antibody (KVA01850). Neurofilament light chain expression in wild-type (WT) and neurofilament light chain (NEFL) shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with neurofilament light chain antibody (KVA01850, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using neurofilament light chain antibody (KVA01850). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with neurofilament light chain antibody (KVA01850, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.