NEFL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NEFL, Polyclonal Antibody
Full Product Name	NEFL Antibody
Product Gene Name	anti-NEFL antibody
Product Synonym Names	NFL; NF-L; NF68; CMT1F; CMT2E
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total NEFL protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	543
OMIM	phenotype 607734
3D Structure	ModBase 3D Structure for P07196
Immunogen	Fusion protein corresponding to a region derived from internal residues of human neurofilament, light polypeptide
Product Categories/Family for anti-NEFL antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NEFL antibody	Immunohistochemistry (IHC)
Application Notes for anti-NEFL antibody	IHC: 1:25-1:100
Related Product Information for anti-NEFL antibody	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
Other Notes	Small volumes of anti-NEFL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NEFL purchase	MBS8588912 is an antibody targeting NEFL. Also known as NEFL Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NEFL. It may not necessarily be applicable to this product.

NCBI GI #	62511894
NCBI GeneID	4747
NCBI Accession #	P07196.3
UniProt Primary Accession #	P07196
UniProt Secondary Accession #	Q16154; Q8IU72; B9ZVN2
UniProt Related Accession #	P07196
NCBI Official Full Name	Neurofilament light polypeptide
NCBI Official Synonym Full Names	neurofilament, light polypeptide
NCBI Official Symbol	NEFL
NCBI Official Synonym Symbols	NFL; NF-L; NF68; CMT1F; CMT2E; PPP1R110
UniProt Protein Name	Neurofilament light polypeptide
UniProt Synonym Protein Names	68 kDa neurofilament protein; Neurofilament triplet L protein
Protein Family	Neurofilament light polypeptide
UniProt Gene Name	NEFL
UniProt Synonym Gene Names	NF68; NFL; NF-L
UniProt Entry Name	NFL_HUMAN
NCBI Protein Information	neurofilament light polypeptide; neurofilament subunit NF-L; neurofilament triplet L protein; neurofilament protein, light chain; neurofilament, light polypeptide 68kDa; light molecular weight neurofilament protein; protein phosphatase 1, regulatory subun
NCBI Summary for NEFL	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]
UniProt Comments for NEFL	NFL: one of the three (L, M, and H) intermediate filament proteins that form neurofilaments. Neurofilaments are involved in the maintenance of neuronal caliber. NF-L is the most abundant of the three neurofilament proteins. Defects cause Charcot-Marie-Tooth disease type 1F (CMT1F). Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 8p21 Cellular Component: TSC1-TSC2 complex; growth cone; axon; cytoplasm; neurofilament; cytosol Molecular Function: protein C-terminus binding; protein binding, bridging; identical protein binding; protein domain specific binding; protein binding; phospholipase binding; structural constituent of cytoskeleton Biological Process: protein polymerization; response to peptide hormone stimulus; neurofilament bundle assembly; response to toxin; intermediate filament organization; microtubule cytoskeleton organization and biogenesis; retrograde axon cargo transport; axon regeneration in the peripheral nervous system; synaptic transmission; axon transport of mitochondrion; regulation of axon diameter; positive regulation of axonogenesis; negative regulation of neuron apoptosis; anterograde axon cargo transport; neuromuscular process controlling balance; locomotion; neurite morphogenesis; response to corticosterone stimulus Disease: Charcot-marie-tooth Disease, Axonal, Type 2e; Charcot-marie-tooth Disease, Demyelinating, Type 1f
Research Articles on NEFL	**1.** expression of NEFL induces cancer cell apoptosis and inhibits invasion in these cell lines, suggesting that NEFL may play a role in cancer cell apoptosis and invasion.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/nefl/8588912