

Recombinant Human NEFL, GST-tagged

Cat. No. NEFL-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NEFL(1 a.a. - 543 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	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.
Molecular Mass	87.9 kDa
AA Sequence	MSSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVSSSLSVRRSY SSSSGSLMPLENLDLSQ VAAISNDLKSIRTQEKAQLQDLNDRFASFIERVHELEQQ NKVLEAELLVLRQKHSEPSRFRALYEQEIRDLRLAA EDATNEKQALQGEREGLEETL RNLQARYEEEEVLSREDAEGRLMEARKGADEAALARAELKRIDSLMDEISFLKK VH EEEIAELQAQIQYAQISVEMDVTKPDLAALKDIRAQYEKLAAKNMQNAEEWFKSRF TVLTESAANKNTDAVRA AKDEVSESRRLLKAKTLEIEACRGMNEALEKQLQELEDKQ NADISAMQDTINKLENELRTTKSEMARYLKEYQDL LNVKMALDIEIAAYRKLLGEET

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RLSFTSVGSITSGYSQSSQVFGRSAYGGLQTSSYLMSTRSFPSYYTSHVQEE QIEV
EETIEAAKAAEEAKDEPPSEGEAEEEEKDKEEAEEEEAAEEEEAAKEESEEAKEEEEEG
GEGEEGEETKEAEE EEKKVEGAGEEQAAKKKD

Applications ELISA; WB-Re; AP; Array

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

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name NEFL neurofilament, light polypeptide [Homo sapiens]

Official Symbol NEFL

Synonyms NEFL; neurofilament, light polypeptide; neurofilament, light polypeptide 68kDa; neurofilament light polypeptide; CMT1F; CMT2E; NF68; NFL; neurofilament subunit NF-L; neurofilament triplet L protein; neurofilament protein, light chain; light molecular weight

Gene ID 4747

mRNA Refseq NM_006158

Protein Refseq NP_006149

MIM 162280

UniProt ID P07196

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Chromosome Location	8p21
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events; Amyotrophic lateral sclerosis (ALS); CREB phosphorylation through the activation of Ras
Function	identical protein binding; phospholipase binding; protein C-terminus binding

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