

Recombinant Human NEFL 293 Cell Lysate

Cat. No. NEFL-3884HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for neurofilament, light polypeptide (NEFL) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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 neurofilament protein; NF-L; FLJ53642;

Gene ID

4747

mRNA Refseq

NM_006158

Protein Refseq

NP_006149

MIM

162280

UniProt ID

P07196

Chromosome Location

8p21.2

Pathway

Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; CREB

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phosphorylation through the activation of CaMKII, organism-specific biosystem;
CREB phosphorylation through the activation of Ras, organism-specific biosystem;
Neuronal System, organism-specific biosystem; Neurotransmitter Receptor Binding
And Downstream Transmission In The Postsynaptic Cell, organism-specific
biosystem;

Function

identical protein binding; protein C-terminus binding; protein binding; structural
constituent of cytoskeleton;

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