

Human neurofilament, light polypeptide ELISA Kit | NEFL elisa kit

Human Neurofilament protein L, NF-L ELISA Kit

CATALOG #
AAA15778

REACTIVITY
Human

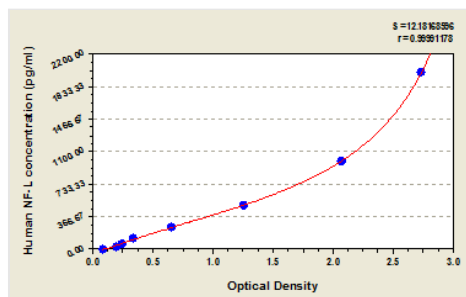
PRODUCT SYNONYMS

neurofilament; light polypeptide; Human Neurofilament protein L; NF-L ELISA Kit; Human Neurofilament protein L (NF-L) ELISA kit; CMT1F; CMT2E; FLJ53642; NF-L; NF68; NFL; light molecular weight neurofilament protein; neurofilament protein; light chain; neurofilament subunit NF-L; neurofilament triplet L protein; lig; NEFL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of human NF-L. No significant cross-reactivity or interference between human NF-L and analogues was observed.
Sequence Length	543
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates
Detection Range	31.25 pg/ml-2000 pg/ml
Sensitivity	< 7.8 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NEFL elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for NF-L has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any NF-L present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for NF-L is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of NF-L bound in the initial step. The color development is stopped and the intensity of the color is measured.
References	Cerebrospinal fluid ceramides from patients with multiple sclerosis impair neuronal bioenergetics . Oscar G. Vidaurre, Jeffery D. Haines, Ilana Katz Sand, Kadidia P. Adula, Jimmy L. Huynh, Corey A. McGraw, Fan Zhang, Merina Varghese, Elias Sotirchos, Pavan Bhargava, Veera Venkata Ratnam Bandaru, Giulio Pasinetti, Weijia Zhang, Matilde Inglese, Peter A. Calabresi, Gang Wu, Aaron E. Miller, Norman J. Haughey, Fred D. Lublin, and Patrizia Casaccia (2014)

NCBI AND UNIPROT INFORMATION

NCBI GI #	105990539
NCBI GeneID	4747
NCBI Accession #	NP_006149.2
NCBI GenBank Nucleotide #	NM_006158.4
UniProt Accession #	P07196 ; Q16154 ; Q8IU72 ; B9ZVN2
Molecular Weight	61,517 Da
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
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 subunit 110
UniProt Protein Name	Neurofilament light polypeptide
UniProt Gene Name	NEFL
UniProt Synonym Gene Names	NF68; NFL; NF-L
UniProt Entry Name	NFL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.