

Rat Neurofilament light polypeptide (NEFL) ELISA Kit | NEFL elisa kit

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CATALOG #
AAA27232

REACTIVITY
Rat

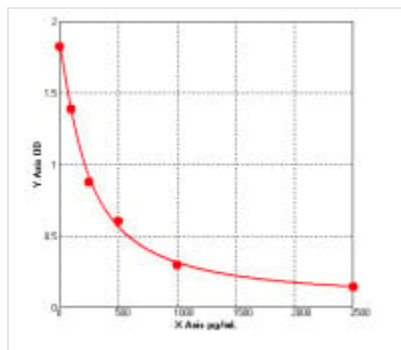
PRODUCT SYNONYMS

Neurofilament light polypeptide (NEFL); Rat Neurofilament light polypeptide (NEFL) ELISA Kit; NEFL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of NEFL. No significant cross-reactivity or interference between NEFL and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between NEFL and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NEFL elisa kit	Principle of the Assay: NEFL ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-NEFL antibody and an NEFL-HRP conjugate. The assay sample and buffer are incubated together with NEFL-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the NEFL concentration since NEFL from samples and NEFL-HRP conjugate compete for the anti-NEFL antibody binding site. Since the number of sites is limited, as more sites are occupied by NEFL from the sample, fewer sites are left to bind NEFL-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The NEFL concentration in each sample is interpolated from this standard curve. Intended Uses: This NEFL ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat NEFL. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
Product Categories/Family for NEFL elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	105990539
NCBI GeneID	4747
NCBI Accession #	NP_006149.2
NCBI GenBank Nucleotide #	NM_006158.4
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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/neurofilament-light-polypeptide-nefl/27232>