

Bovine Neurofilament, Light Polypeptide (NEFL) ELISA Kit | NEFL elisa kit

Bovine Neurofilament, Light Polypeptide (NEFL)(Sandwich ELISA) ELISA Kit

CATALOG #
AAA152543

REACTIVITY
Bovine

PRODUCT SYNONYMS

Neurofilament; Light Polypeptide (NEFL); Bovine Neurofilament; Light Polypeptide (NEFL)(Sandwich ELISA) ELISA Kit; ELISA Kit for Neurofilament; CMT1F; CMT2E; NF-L; NF68; NFL; 68 kDa neurofilament protein; Neurofilament triplet L protein; NEFL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Specificity	Detects protein (regular version) Reactive with Bovine NEFL/Neurofilament, Light Polypeptide This assay has high sensitivity and excellent specificity for detection of Neurofilament, Light Polypeptide (NEFL). No significant cross-reactivity or interference between Neurofilament, Light Polypeptide (NEFL) and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Sensitivity	6.3pg/mL
Assay Time	3h
Sample Size	100uL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Neurofilament, Light Polypeptide (NEFL) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Neurofilament, Light Polypeptide (NEFL) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Neurofilament, Light Polypeptide (NEFL). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Neurofilament, Light Polypeptide (NEFL). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Neurofilament, Light Polypeptide (NEFL), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Neurofilament, Light Polypeptide (NEFL) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100uL standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50uL Stop Solution. Read at 450nm immediately.

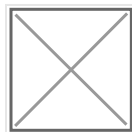
Preparation and Storage

Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life)

Shelf-life: one year

The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

Typical Standard Curve for NEFL ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	27806523
NCBI GeneID	281348
NCBI Accession #	NP_776546.1
NCBI GenBank Nucleotide #	NM_174121.1
UniProt Accession #	P02548; P79127; Q17QQ0
Molecular Weight	62,646 Da
NCBI Official Full Name	neurofilament light polypeptide
NCBI Official Synonym Full Names	neurofilament, light polypeptide
NCBI Official Symbol	NEFL
NCBI Protein Information	neurofilament light polypeptide; 68 kDa neurofilament protein; NF-L; micro glutamic acid-rich protein; neurofilament triplet L protein; neurofilament, light polypeptide 68kDa
UniProt Protein Name	Neurofilament light polypeptide
UniProt Gene Name	NEFL
UniProt Synonym Gene Names	NF-L
UniProt Entry Name	NFL_BOVIN

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://stage.aaabiotech.com/bovine-ovine-elisa-kits/neurofilament-light-polypeptide-nefl/152543>