

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

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CATALOG #  
AAA182378

REACTIVITY  
Rat

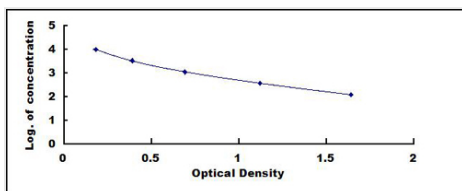
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                       | 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.                                                                                                                                                                                                                                            |
| Sequence Length                                   | 542                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type                                        | Competitive Inhibition                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Samples                                           | Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates and Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                       |
| Detection Range                                   | 123.5-10,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sensitivity                                       | < 50.4pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Application                                       | Enzyme-linked immunosorbent assay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                           | 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.<br>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)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for NEFL elisa kit | This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Neurofilament, Light Polypeptide (NEFL) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Neurofilament, Light Polypeptide (NEFL) and unlabeled Neurofilament, Light Polypeptide (NEFL) (Standards or samples) with the pre-coated antibody specific to Neurofilament, Light Polypeptide (NEFL). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Neurofilament, Light Polypeptide (NEFL) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Neurofilament, Light Polypeptide (NEFL) in the sample. |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|---------------------------------|
| NCBI GI #                        | 13929098                        |
| NCBI GeneID                      | 83613                           |
| NCBI Accession #                 | NP_113971.1                     |
| NCBI GenBank Nucleotide #        | NM_031783.1                     |
| UniProt Accession #              | P19527; Q63367                  |
| Molecular Weight                 | 61,335 Da                       |
| NCBI Official Full Name          | neurofilament light polypeptide |
| NCBI Official Synonym Full Names | neurofilament light             |
| NCBI Official Symbol             | Nefl                            |
| NCBI Official Synonym Symbols    | Nfl; NF-L; NF68                 |
| NCBI Protein Information         | neurofilament light polypeptide |
| UniProt Protein Name             | Neurofilament light polypeptide |
| UniProt Gene Name                | Nefl                            |
| UniProt Synonym Gene Names       | Nf68; Nfl; NF-L                 |

**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/rat-elisa-kits/neurofilament-light-polypeptide-nefl/182378>