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### Datasheet for ABIN411338 Neurotrophin 3 ELISA Kit

1 Image

4 Publications



#### Overview

| Quantity:                | 96 tests              |
|--------------------------|-----------------------|
| Target:                  | Neurotrophin 3 (NTF3) |
| Binding Specificity:     | AA 139-257            |
| Reactivity:              | Human                 |
| Method Type:             | Sandwich ELISA        |
| Detection Range:         | 15.6-1000 pg/mL       |
| Minimum Detection Limit: | 15.6 pg/mL            |
| Application:             | ELISA                 |

#### Product Details

| Purpose:                    | Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Neurotrophin-3        |
|-----------------------------|---|
| Brand:                      | PicoKine™   |
| Sample Type:                | Cell Culture Supernatant, Serum   |
| Analytical Method:          | Quantitative  |
| Detection Method:           | Colorimetric  |
| Immunogen:                  | Expression system for standard: sf21<br>Immunogen sequence: Y139-T257                         |
| Specificity:                | Expression system for standard: sf21<br>Immunogen sequence: Y139-T257                         |
| Cross-Reactivity (Details): | There is cross-reactivity with NT-4<2.5 % , and no detectable cross-reactivity with any other |

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#### Product Details

|                        | cytokine.   |
|------------------------|---|
| Predicted Reactivity:  | Bovine,Chicken,Horse,Monkey,Rabbit  |
| Sensitivity:           | <2pg/mL   |
| Material not included: | Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette<br>tips. Multichannel pipettes are recommended in the condition of large amount of samples in the<br>detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation<br>of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl |

#### Target Details

| Target:             | Neurotrophin 3 (NTF3)  |
|---------------------|--|
| Alternative Name:   | NTF3 (NTF3 Products)   |
| Background:         | Protein Function: Seems to promote the survival of visceral and proprioceptive sensory         |
|                     | neurons.   |
|                     | Background: Neurotrophin-3(NT-3) is a new member of the nerve growth factor gene family,       |
|                     | which plays an important role in the development and maintenance of the vertebrate nervous     |
|                     | system. NT-3 and its receptor, called neurotrophic tyrosine kinase receptor type 3(Ntrk3, also |
|                     | called TrkC), are expressed early and throughout embryogenesis. NT-3 is one of five            |
|                     | neurotrophin growth factors which shape the development of the nervous system by regulating    |
|                     | neuronal survival and differentiation. NT-3 may be one of the central nervous system-derived   |
|                     | factors that mediate neural crest(NC) cell proliferation in vivo. NT-3 has been mapped to      |
|                     | human chromosome 12p and mouse chromosome 6.1  |
|                     | Synonyms: Neurotrophin-3,NT-3,HDNF,Nerve growth factor 2,NGF-2,Neurotrophic factor,NTF3,       |
|                     | Full Gene Name: Neurotrophin-3   |
|                     | Cellular Localisation: Secreted.   |
| Gene ID:            | 4908   |
| UniProt:            | P20783   |
| Pathways:           | RTK Signaling, Neurotrophin Signaling Pathway  |
| Application Details |  |
| Application Notes:  | Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well   |
|                     | assay was recommended for both standard and sample testing.                                    |
| Comment:            | Tissue Specificity: Brain and peripheral tissues.  |
|                     |  |

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| Plate:            | Pre-coated   |
|-------------------|--|
| Protocol:         | human Neurotrophin-3 ELISA Kit was based on standard sandwich enzyme-linked immune-<br>sorbent assay technology. A monoclonal antibody from mouse specific for Neurotrophin-3 has<br>been precoated onto 96-well plates. Standards(sf21, Y139-T257) and test samples are added to<br>the wells, a biotinylated detection polyclonal antibody from goat specific for Neurotrophin-3 is<br>added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-<br>Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS<br>buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed<br>by HRP to produce a blue color product that changed into yellow after adding acidic stop<br>solution. The density of yellow is proportional to the human Neurotrophin-3 amount of sample<br>captured in plate. |
| Assay Procedure:  | Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL,<br>31.2pg/mL, 15.6pg/mL human Neurotrophin-3 standard solutions into the precoated 96-well<br>plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of<br>each properly diluted sample of human cell culture supernatants or serum to each empty well.<br>See "Sample Dilution Guideline" above for details. It is recommended that each human<br>Neurotrophin-3 standard solution and each sample be measured in duplicate.   |
| Assay Precision:  | <ul> <li>Sample 1: n=16, Mean(pg/ml): 93, Standard deviation: 4, CV(%): 4.3</li> <li>Sample 2: n=16, Mean(pg/ml): 357, Standard deviation: 17.5, CV(%): 4.9</li> <li>Sample 3: n=16, Mean(pg/ml): 657, Standard deviation: 34.2, CV(%): 5.2,</li> <li>Sample 1: n=24, Mean(pg/ml): 146, Standard deviation: 7.88, CV(%): 5.4</li> <li>Sample 2: n=24, Mean(pg/ml): 375, Standard deviation: 22.9, CV(%): 6.1</li> <li>Sample 3: n=24, Mean(pg/ml): 732, Standard deviation: 47.58, CV(%): 6.5</li> </ul>   |
| Restrictions:     | For Research Use only  |
| Handling          |  |
| Handling Advice:  | Avoid multiple freeze-thaw cycles.   |
| Storage:          | -20 °C,4 °C  |
| Storage Comment:  | Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles   |
| Expiry Date:      | 12 months  |
| Publications      |  |
| Product cited in: | Martin, Koczera, Simons, Zechendorf, Hoeger, Marx, Schuerholz: "The Human Host Defense   |

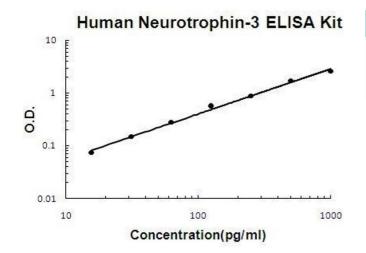
**Application Details** 

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#### Images



## ELISA

**Image 1.** Human Neurotrophin-3 PicoKine ELISA Kit standard curve

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