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Datasheet for ABIN6719765  
**NRG1-beta 1 ELISA Kit**

### Overview

|                          |                         |
|--------------------------|-------------------------|
| Quantity:                | 1 kit                   |
| Target:                  | NRG1-beta 1             |
| Reactivity:              | Human                   |
| Method Type:             | Sandwich ELISA          |
| Detection Range:         | 62.5 pg/mL - 4000 pg/mL |
| Minimum Detection Limit: | 62.5 pg/mL              |
| Application:             | ELISA                   |

### Product Details

|                    |  |
|--------------------|--|
| Purpose:           | Sandwich ELISA for Quantitative Detection of Antigen   |
| Sample Type:       | Cell Culture Supernatant, Plasma (EDTA - heparin), Serum   |
| Analytical Method: | Quantitative   |
| Detection Method:  | Colorimetric   |
| Characteristics:   | <p>Synonyms: Acetylcholine receptor inducing activity, Acetylcholine receptor-inducing activity, ARIA, Breast cancer cell differentiation factor p45, GGF, GGF2, Glial growth factor, Heregulin, HGL, HRG, HRG1, HRGA, MST131, NDF, Neu differentiation factor, Neuregulin 1, Neuregulin-1, Neuregulin1, nrg1, NRG1 beta 1, NRG1_HUMAN, Pro neuregulin 1, Pro NRG1, Pro-NRG1, Sensory and motor neuron derived factor, Sensory and motor neuron-derived factor, SMDF</p> <p>Background: Neuregulin 1 or NRG1 is a protein that in humans is encoded by the NRG1 gene. It is mapped to 8p12. NRG1 is one of four proteins in the neuregulin family that act on the EGFR family of receptors. The protein encoded by this gene is a membrane glycoprotein that</p> |

## Product Details

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mediates cell-cell signaling and plays a critical role in the growth and development of multiple organ systems. Dysregulation of this gene has been linked to diseases such as cancer, schizophrenia, and bipolar disorder (BPD). It is also essential for the normal development of the nervous system and the heart. Furthermore, it was originally identified as a 44-kD glycoprotein that interacts with the NEU/ERBB2 receptor tyrosine kinase to increase its phosphorylation on tyrosine residues.

Gene Name: NRG1

Production: Natural and recombinant human Neuregulin-1. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: S2-K246

## Target Details

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|                   |  |
|-------------------|--|
| Target:           | NRG1-beta 1  |
| Alternative Name: | Neuregulin-1 - NRG1-beta1 ( <a href="#">NRG1-beta 1 Products</a> ) |
| Gene ID:          | 3084   |
| NCBI Accession:   | <a href="#">NP_001153467</a>                                       |
| UniProt:          | <a href="#">Q02297</a>   |

## Application Details

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Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human Neuregulin-1 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each human Neuregulin-1 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 62.5pg/mL-4000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

## Handling

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Storage: RT, 4 °C, -20 °C

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Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.