

DESCRIPTION

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| Species Reactivity | Human |
| Specificity | Detects human NRG1-β1 in ELISAs. Recognizes an epitope found in the EGF-like domain of NRG1-β1 (amino acids 179-246). It also detects recombinant human SMDF (Sensory and Motor neuron-Derived Factor), but it does not recognize the EGF-like domain of human NRG1-α (amino acids 177-241). The epitope is present within amino acids 213-230 of human NRG1-β1. This segment is present in all NRG1 beta isoforms, GGF-2 (glial growth factor), and SMDF, but it is absent from NRG1-α, NDF43, and NRG1-γ. |
| Source | Monoclonal Mouse IgG ₁ Clone # 147705 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human NRG1-β1/HRG1-β1 Ser2-Lys246 Accession # AAA58639 |
| Formulation | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| Human NRG1-β1/HRG1-β1 Sandwich Immunoassay | | Reagent |
|---|---------------|---|
| ELISA Capture | 2-8 μg/mL | Human NRG1-β1/HRG1-β1 EGF Domain Antibody (Catalog # MAB3771) |
| ELISA Detection | 0.1-0.4 μg/mL | Human NRG1-β1/HRG1-β1 Extracellular Domain Biotinylated Antibody (Catalog # BAF377) |
| Standard | | Recombinant Human NRG1-β1/HRG1-β1 Extracellular Domain (Catalog # 377-HB) |

PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

Neuregulin-1, also known as Heregulin 1, functions as a ligand for the receptor tyrosine kinases, ErbB3 and ErbB4. It exists in several different mRNA splicing variants resulting in both transmembrane and secreted forms.