Human NRG1-β1/HRG1-β1 EGF Domain Antibody

Monoclonal Mouse IgG_1 Clone # 147705

Catalog Number: MAB3771

DESCRIPTION

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	*E. coli*-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 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

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.** ● 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.

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