PRODUCT INFORMATION

Target	NRG1 Beta1
Synonyms	GGF; HGL; HRG; NDF; ARIA; GGF2; HRG1; HRGA; SMDF; MST131; MSTP131; NRG1-IT2
Description	Recombinant human NRG1 Beta1(20-242) Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	Q02297-6
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	NRG1 Beta1(Ser20-Glu242) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 50.4 kDa after removal of the signal peptide. The apparent molecular mass of NRG1 Beta1(20-242)-hFc is approximately 55-70 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	The protein encoded by this gene is a membrane glycoprotein that mediates cell-cell signaling and plays a critical role in the growth and development of multiple organ systems. An extraordinary variety of different isoforms are produced from this gene through alternative promoter usage and splicing. These isoforms are expressed in a tissue-specific manner and differ significantly in their structure, and are classified as types I, II, III, IV, V and VI. Dysregulation of this gene has been linked to diseases such as cancer, schizophrenia, and bipolar disorder (BPD). [provided by RefSeq, Apr 2016]
Usage	Research use only
Conjugate	Unconjugated

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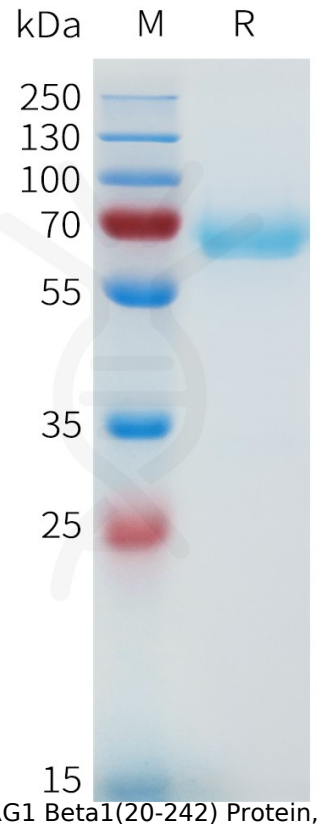


Figure 1. Human NRG1 Beta1(20-242) Protein, hFc Tag on SDS-PAGE under reducing condition.

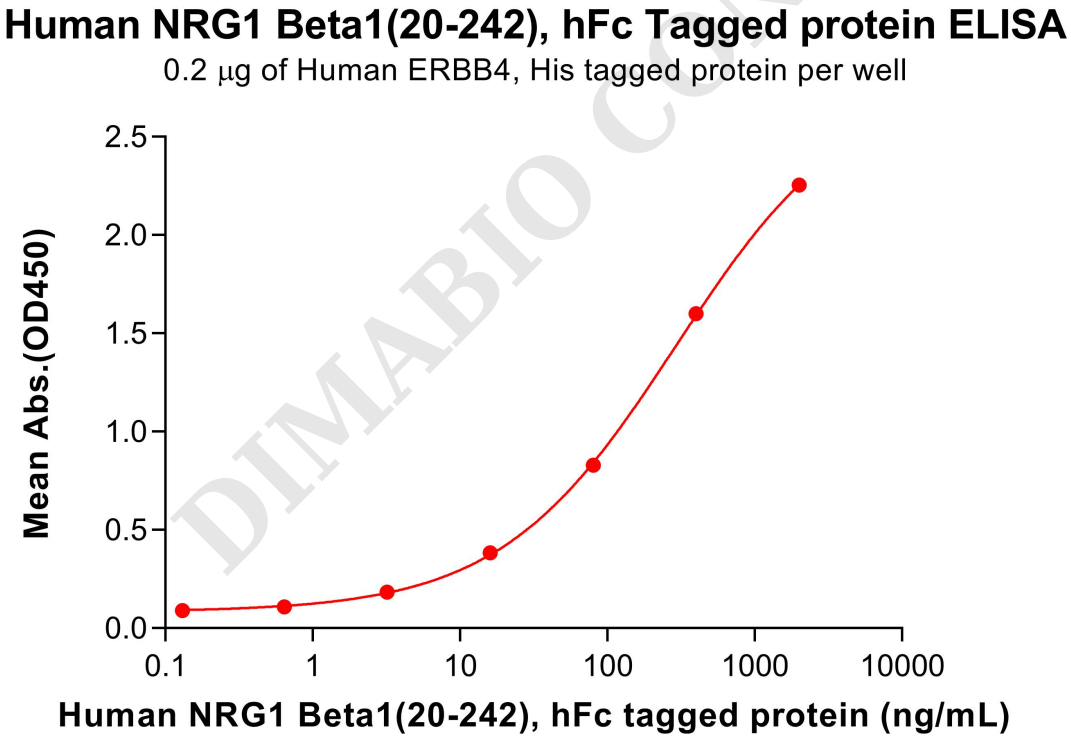


Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human ERBB4 Protein, His Tag (PME101758) Tag can bind Human NRG1 Beta1(20-242) Protein, hFc Tag (PME101643) in a linear range of 80–1000 ng/mL.

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