

Human Neuregulin-1 ELISA Kit | NRG1 elisa kit

Human Neuregulin-1 ELISA Kit

CATALOG # AAA261708	REACTIVITY Human	APPLICATIONS ELISA
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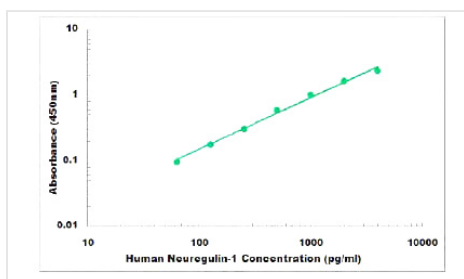
PRODUCT SYNONYMS

Neuregulin-1; Human Neuregulin-1 ELISA Kit; Pro-neuregulin-1 membrane-bound isoform; Pro-NRG1; NRG1; GGF; HGL; HRGA; NDF; SMDF; NRG1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Neuregulin-1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Neuregulin-1 proteins within the range of 62.5 pg/ml - 4000 pg/ml.
Sequence Length	640
Samples	Cell Culture Supernatants, Serum, Plasma.
Sensitivity	10 pg/ml.
Applicable Applications for NRG1 elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NRG1 elisa kit	Principle of the Assay The Human Neuregulin-1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Neuregulin-1 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Human Neuregulin-1 coated on a 96-well plate. Standards and samples are pipetted into the wells and Neuregulin-1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Neuregulin-1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Neuregulin-1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: 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 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	9297018
NCBI GeneID	3084
UniProt Accession #	Q02297; O14667; P98202; Q02298; Q02299; Q07110; Q07111; A5YAK4; A5YAK5; A8K1L2; B7Z4Z3; E9PHH4
Molecular Weight	46,226 Da
NCBI Official Full Name	Pro-neuregulin-1, membrane-bound isoform
NCBI Official Synonym Full Names	neuregulin 1
NCBI Official Symbol	NRG1
NCBI Official Synonym Symbols	GGF; HGL; HRG; NDF; ARIA; GGF2; HRG1; HRGA; SMDF; MST131; MSTP131; NRG1-IT2
NCBI Protein Information	pro-neuregulin-1, membrane-bound isoform
UniProt Protein Name	Pro-neuregulin-1, membrane-bound isoform
UniProt Gene Name	NRG1
UniProt Synonym Gene Names	GGF; HGL; HRGA; NDF; SMDF; Pro-NRG1; ARIA; HRG
UniProt Entry Name	NRG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.