

Rat Neuregulin 1 (NRG1) ELISA Kit | NRG1 elisa kit

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CATALOG #
AAA135794

REACTIVITY
Rat

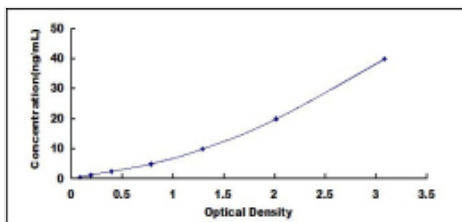
PRODUCT SYNONYMS

Neuregulin 1 (NRG1); Rat Neuregulin 1 (NRG1) ELISA Kit; ARIA; GGF; HGL; HRG; HRGA; NDF; SMDF; Acetylcholine receptor-inducing activity; Glial growth factor; Heregulin; Neu differentiation factor; Sensory and motor neuron-derived factor; NRG1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Neuregulin 1 (NRG1). No significant cross-reactivity or interference between Neuregulin 1 (NRG1) and analogues was observed.
Sequence Length	640
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	5.6pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Neuregulin 1 (NRG1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Neuregulin 1 (NRG1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NRG1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Neuregulin 1 (NRG1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Neuregulin 1 (NRG1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Neuregulin 1 (NRG1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Neuregulin 1 (NRG1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for NRG1 elisa kit	Signal transduction; Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	223462375
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	Neuregulin 1
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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/neuregulin-1-nrg1/135794>