

Datasheet for KOA0835**Human Neuregulin-1 - NRG1-beta1 ELISA Kit****Overview**

Description:	Human Neuregulin-1/NRG1-beta1 AccuSignal ELISA Kit - KOA0835
Item No.:	KOA0835
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

Background:	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.
Synonyms:	Acetylcholine receptor inducing activity, Acetylcholine receptor-inducing activity, ARIA, Breast cancer cell differentiation factor p45, GGF, GGF2, Glial growth factor, Heregulin, HGL, HRG, HRG1, HRGA, MST131, NDF, Neu differentiation factor, Neuregulin 1, Neuregulin-1, Neuregulin1, nrg1, NRG1 beta 1, NRG1_HUMAN, Pro neuregulin 1, Pro NRG1, Pro-NRG1, Sensory and motor neuron derived factor, Sensory and motor neuron-derived factor, SMDF
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	NRG1
Reactivity:	Human

Immunogen:	Expression system for standard: E.coli; Immunogen sequence: S2-K246
Purity/Specificity:	Natural and recombinant human Neuregulin-1. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q02297 • NCBI - NP_001153467.1 • GenelD - 3084 • KOA0835 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human Neuregulin-1 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each human Neuregulin-1 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	62.5pg/ml-4000pg/ml
Other:	DOE: 2-8° C - 05/15/2020 -20° C - 11/15/2020

Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

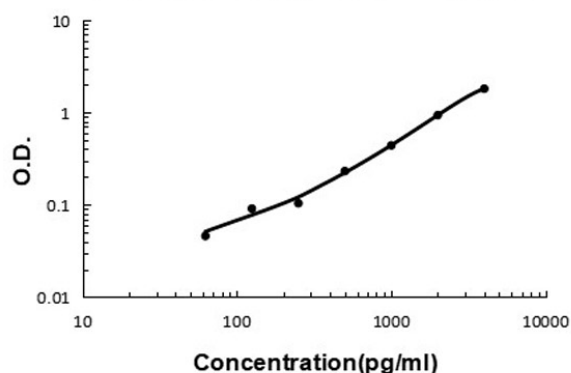
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images

Human Neuregulin-1 ELISA Kit



ELISA

Human Neuregulin-1/NRG1-Beta1 ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.