Human neuregulin-2 (NRG2) ELISA kit

Product Code	CSB-EL016078HU
Abbreviation	NRG2
Target Name	neuregulin-2 (NRG2)
Uniprot No.	O14511
Alias	Don-1, HRG2, NTAK, divergent of neuregulin-1|neural- and thymus-derived activator for ErbB kinases
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Neuroscience
Gene Names	NRG2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human NRG2 ELISA Kit was designed for the quantitative measurement of Human NRG2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL.
Target Details	Neuregulin 2 (NRG2) is a novel member of the neuregulin family of growth and differentiation factors. Through interaction with the Erbb family of receptors, NRG2 induces the growth and differentiation of epithelial, neuronal, glial, and other types of cells. The gene consists of 12 exons and the genomic structure is similar to that of neuregulin 1 (NRG1), another member of the neuregulin family of ligands. NRG1 and NRG2 mediate distinct biological processes by acting at different sites in tissues and eliciting different biological responses in cells. The gene is located close to the region for demyelinating Charcot-Marie-Tooth disease locus, but is not responsible for this disease. Alternative transcripts encoding distinct isoforms have been described.
Product Precision	**Intra-assay Precision (Precision within an assay): CV%<8%**

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human NRG2 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:5	Average %	101
	Range %	88-105
1:10	Average %	100
	Range %	90-105
1:20	Average %	97
	Range %	88-101
1:40	Average %	99
	Range %	94-102

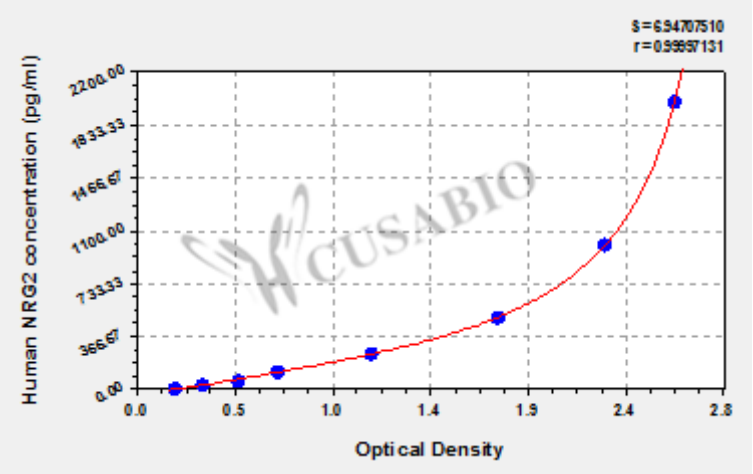
Recovery

The recovery of human NRG2 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	94	87-97
EDTA plasma (n=4)	101	95-107

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
2000	2.638	2.567	2.603	2.404
1000	2.312	2.222	2.267	2.068
500	1.722	1.787	1.755	1.556
250	1.156	1.129	1.143	0.944
125	0.702	0.684	0.693	0.494
62.5	0.501	0.513	0.507	0.308
31.25	0.326	0.338	0.332	0.133
0	0.201	0.197	0.199	?

Msds

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