



Human nuclear factor- κ B p65, NF- κ B p65 ELISA Kit

Product Code	CSB-E08787h
Abbreviation	RELA
Protein Biological Process 1	Immunity
Target Name	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
Uniprot No.	Q04206
Alias	MGC131774, NFKB3, p65, nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Host-virus interaction
Sample Types	serum, plasma, tissue homogenates
Detection Range	47 pg/mL-3000 pg/mL
Sensitivity	11.75 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	Immunology
Gene Names	RELA
Tag Info	quantitative
Protein Description	Sandwich

Description

This human NF- κ B p65 ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human NF- κ B p65 in different samples, including serum, plasma, or tissue homogenates. The enzyme-substrate chromogenic reaction is also used to amplify the signal and quantify the levels of the analyte through the intensity of the colored product. The color intensity positively correlates with the amount of NF- κ B p65 bound in the initial step.



p65, also known as RELA, is one of the five components that form the NF- κ B transcription factor family and plays a central role in inflammation and immunity. p65 dimerizes with NF- κ B1 (p50) to form the heterodimer NF- κ B, which is involved in multiple physiological and pathological gene regulation processes, such as inflammatory response, immune response, cell division, proliferation, and apoptosis. Studies have shown that the expression of NF- κ B P65 in liver cancer tissues is higher than that in adjacent tissues, and the key to regulating the function of NF- κ B is to inhibit the promoting effect of P65 on liver tumors. It is speculated that blocking the activity of NF- κ B P65 can inhibit the differentiation and growth of tumor cells, providing a new idea for clinical treatment.

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 NF- κ B p65 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)
1:1	Average %	88
	Range %	83-92
1:2	Average %	101
	Range %	95-104
1:4	Average %	102
	Range %	98-105
1:8	Average %	95
	Range %	90-98

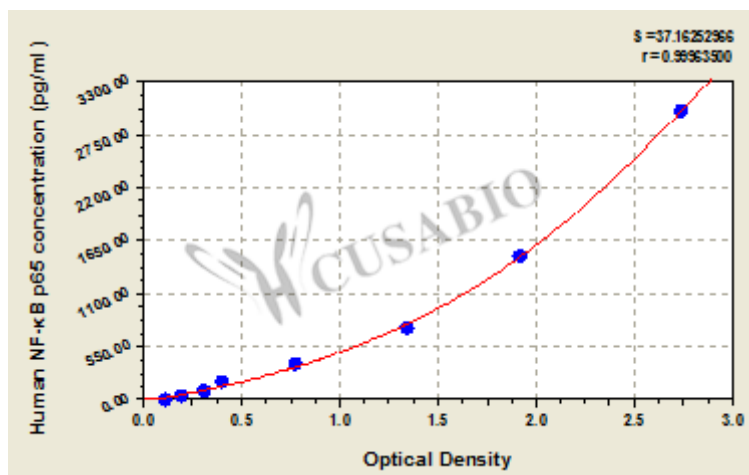
Recovery

The recovery of human NF- κ B p65 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)	93	89-96
EDTA plasma (n=4)	95	91-98

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
3000	2.751	2.732	2.742	2.618
1500	1.966	1.876	1.921	1.797
750	1.356	1.344	1.350	1.226
375	0.790	0.777	0.784	0.660
187.5	0.421	0.403	0.412	0.288
94	0.323	0.312	0.318	0.194
47	0.209	0.196	0.203	0.079
0	0.125	0.123	0.124	?

Msds

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