



Rat Interleukin 21,IL-21 ELISA Kit

Product Code	CSB-E11843r
Abbreviation	IL21
Target Name	interleukin 21
Uniprot No.	A3QPB9
Alias	IL-21, Za11, interleukin-21 isoform
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	IL21
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat IL21 ELISA Kit was designed for the quantitative measurement of Rat IL21 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.

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 rat IL-21 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 %	91
	Range %	85-96



1:2	Average %	89
	Range %	84-95
1:4	Average %	103
	Range %	99-108
1:8	Average %	99
	Range %	94-105

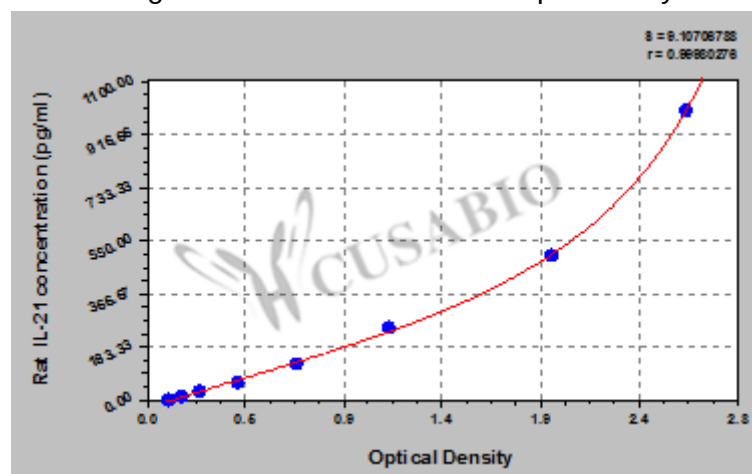
Recovery

The recovery of rat IL-21 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)	97	92-101
EDTA plasma (n=4)	92	88-100

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
1000	2.601	2.544	2.573	2.456
500	1.921	1.952	1.937	1.820
250	1.198	1.122	1.160	1.043
125	0.735	0.709	0.722	0.605
62.5	0.425	0.459	0.442	0.325
31.2	0.272	0.257	0.265	0.148
15.6	0.181	0.172	0.177	0.060
0	0.116	0.118	0.117	

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