



Rat Interleukin 6 receptor, IL-6R ELISA Kit

Product Code	CSB-E11876r
Abbreviation	IL6R
Target Name	interleukin 6 receptor
Uniprot No.	P22273
Alias	CD126, IL-6R-1, IL-6R-alpha, IL6RA, MGC104991, CD126 antigen interleukin 6 receptor alpha subunit
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.625 ng/mL-40 ng/mL
Sensitivity	0.156 ng/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	Il6r
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat IL6R ELISA Kit was designed for the quantitative measurement of Rat IL6R protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL.
Target Details	Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. This protein is a subunit of the receptor complex for IL6. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternatively spliced transcript variants encoding distinct isoforms have been reported.
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-6R 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 %	99
	Range %	91-103
1:2	Average %	100
	Range %	95-104
1:4	Average %	89
	Range %	83-92
1:8	Average %	93
	Range %	84-97

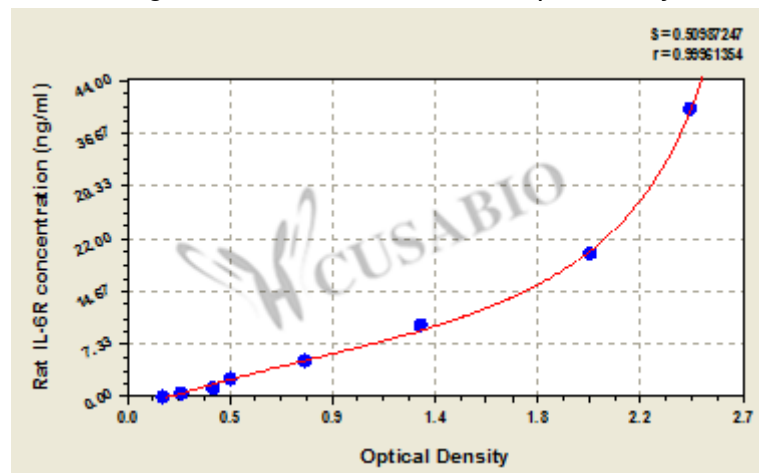
Recovery

The recovery of rat IL-6R 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)	101	92-105
EDTA plasma (n=4)	99	91-103

Typical

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



ng/ml	OD1	OD2	Average	Corrected
40	2.492	2.437	2.465	2.289
20	2.077	1.981	2.029	1.853
10	1.289	1.300	1.295	1.119
5	0.799	0.787	0.793	0.617
2.5	0.470	0.461	0.466	0.290
1.25	0.394	0.388	0.391	0.215
0.625	0.260	0.252	0.256	0.080
0	0.178	0.174	0.176	

Msds

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