



# Rat Interleukin 11,IL-11 ELISA KIT

<b>Product Code</b>	CSB-E07358r
<b>Abbreviation</b>	IL11
<b>Target Name</b>	interleukin 11
<b>Uniprot No.</b>	Q99MF5
<b>Alias</b>	AGIF, IL-11, adipogenesis inhibitory factor oprelvekin
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Sample Types</b>	serum, plasma, tissue homogenates
<b>Detection Range</b>	15.6 pg/mL-1000 pg/mL
<b>Sensitivity</b>	3.9 pg/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Immunology
<b>Gene Names</b>	Il11
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Rat IL11 ELISA Kit was designed for the quantitative measurement of Rat IL11 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 .
<b>Target Details</b>	This protein is a member of the gp130 family of cytokines. These cytokines drive the assembly of multisubunit receptor complexes, all of which contain at least one molecule of the transmembrane signaling receptor IL6ST (gp130). This cytokine is shown to stimulate the T-cell-dependent development of immunoglobulin-producing B cells. It is also found to support the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells.
<b>Product Precision</b>	<p>Intra-assay Precision (Precision within an assay): CV%&lt;8%</p> <p>Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%&lt;10%</p> <p>Three samples of known concentration were tested in twenty assays to assess.</p>



## Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat IL-11 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 %	81-94
1:2	Average %	85
	Range %	80-90
1:4	Average %	92
	Range %	86-101
1:8	Average %	95
	Range %	89-102

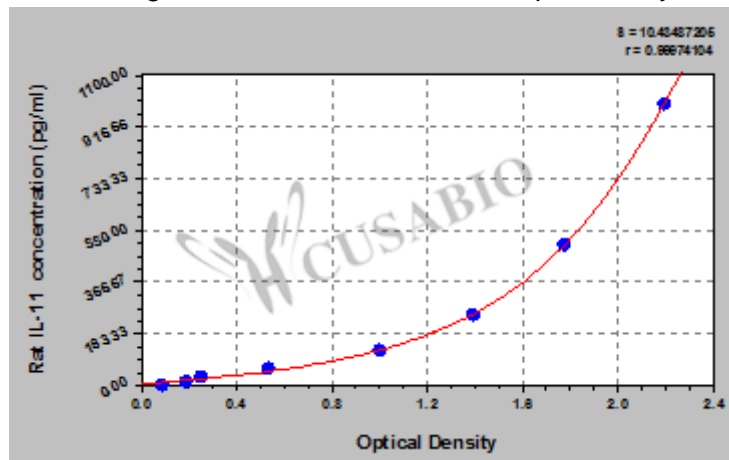
## Recovery

The recovery of rat IL-11 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)	90	80-105
EDTA plasma (n=4)	98	90-103

## 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	2.179	2.116	2.148	2.055
500	1.773	1.704	1.739	1.646
250	1.426	1.313	1.370	1.277
125	1.009	0.959	0.984	0.891
62.5	0.537	0.517	0.527	0.434
31.2	0.262	0.250	0.256	0.163
15.6	0.198	0.186	0.192	0.099
0	0.095	0.090	0.093	?

## Msds

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