



Rat Interleukin 15,IL-15 ELISA KIT

Product Code	CSB-E07453r
Abbreviation	IL15
Target Name	interleukin 15
Uniprot No.	P97604
Alias	IL-15, MGC9721
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	1.56 pg/mL-100 pg/mL
Sensitivity	0.39 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	IL15
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat IL15 ELISA Kit was designed for the quantitative measurement of Rat IL15 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 1.56 pg/mL-100 pg/mL and the sensitivity is 0.39 pg/mL .

Target Details

This protein is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other s activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Two alternatively spliced transcript variants of this gene encoding the same protein 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-15 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 %	96
	Range %	90-101
1:2	Average %	93
	Range %	87-99
1:4	Average %	87
	Range %	82-94
1:8	Average %	100
	Range %	95-104

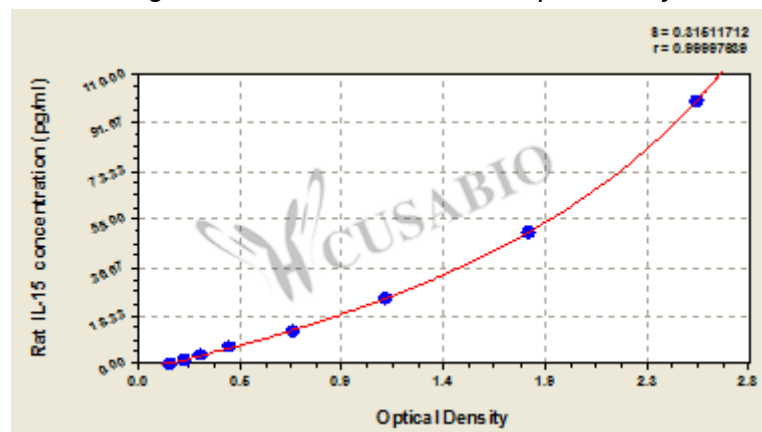
Recovery

The recovery of rat IL-15 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)	96	91-101
EDTA plasma (n=4)	93	87-98

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
100	2.511	2.567	2.539	2.383
50	1.773	1.783	1.778	1.622
25	1.106	1.154	1.130	0.974
12.5	0.704	0.725	0.715	0.559
6.25	0.415	0.431	0.423	0.267
3.12	0.287	0.297	0.292	0.136
1.56	0.214	0.231	0.223	0.067
0	0.155	0.157	0.156	?

**Msd**

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