





Rat regulated on activation in normal T-cell expressed and secreted/C-C motif chemokine 5 (RANTES/CCL5) ELISA kit

Product Code	CSB-E07398r
Protein Biological Process 2	chemokine
Abbreviation	RANTES/CCL5
Protein Biological Process 1	Immunity
Target Name	regulated on activation in normal T-cell expressed and secreted/C-C motif chemokine 5 (RANTES/CCL5)
Uniprot No.	P50231
Alias	D17S136E, MGC17164, RANTES, SCYA5, SISd, TCP228, OTTHUMP00000197106 SIS-delta T-cell specific protein p288 beta-chemokine RANTES regulated upon activation, normally T-expressed, and presumably secre
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 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	Ccl5
Tag Info	quantitative
Protein Description	Sandwich
Description	The Rat Ccl5 ELISA Kit is a reliable and precise tool for the detection and

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quantification of C-C motif chemokine 5 (Ccl5) in rat serum, plasma, cell culture

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supernates, and tissue homogenates. Ccl5 is an important protein that is involved in a variety of immune responses, including inflammation and the recruitment of immune cells to sites of infection.

This ELISA kit features a sensitive detection range of 0.156 ng/mL to 10 ng/mL, with a sensitivity of 0.039 ng/mL. The assay principle is based on the sandwich measurement technique, providing researchers with quantitative results in as little as 1-5 hours. The kit is optimized for use with a sample volume of 50-100ul, making it a good solution for researchers.

The Rat Ccl5 ELISA Kit is an ideal choice for researchers investigating immunology, inflammation, and immune responses in rats. With its sensitive detection range, efficient assay time, and cost-effective design, this kit is a valuable addition to any researcher's toolkit.

Target Details

This gene is one of several CC cytokine genes clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The CC cytokines are proteins characterized by two adjacent cysteines. The cytokine encoded by this gene functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor CCR5 and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor.

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 RANTES 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 %	94-105
1:2	Average %	102
	Range %	97-107
1:4	Average %	92
	Range %	88-96
1:8	Average %	101
	Range %	97-106

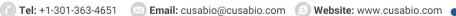
Recovery

The recovery of rat RANTES 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.









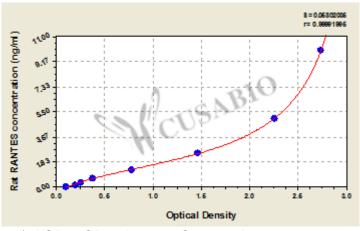




Sample Type	Average % Recovery	Range
Serum (n=5)	87	83-92
EDTA plasma (n=4)	92	86-98

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

2.684 2.799 2.742 2.633 5 2.178 2.349 2.264 2.155 2.5 1.444 1.489 1.467 1.358 1.25 0.783 0.795 0.789 0.680 $0.625\ 0.376\ 0.392\ 0.384$ 0.275 0.312 0.258 0.264 0.261 0.152 $0.156\,0.201\,0.208\,0.205$ 0.096 0.108 0.109 0.109 ? 0

Msds

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