



Mouse regulated on activation in normal T-cell expressed and secreted, RANTES ELISA kit

Product Code	CSB-E09256m
Protein Biological Process 2	chemokine
Abbreviation	CCL5
Protein Biological Process 1	Immunity
Target Name	chemokine (C-C motif) ligand 5
Uniprot No.	P30882
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	Mus musculus (Mouse)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, plasma, 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

This Mouse CCL5 ELISA Kit was designed for the quantitative measurement of Mouse CCL5 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.



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 mouse 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 %	87
	Range %	85-90
1:2	Average %	108
	Range %	104-112
1:4	Average %	95
	Range %	92-99
1:8	Average %	84
	Range %	81-89

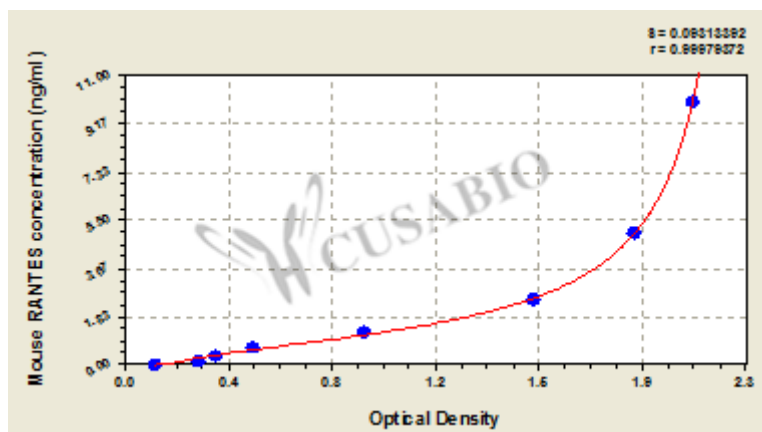
Recovery

The recovery of mouse 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)	97	94-100
EDTA plasma (n=4)	87	83-90

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
10	2.184	2.009	2.097	1.975
5	1.868	1.898	1.883	1.761
2.5	1.523	1.505	1.514	1.392
1.25	0.887	0.898	0.893	0.771
0.625	0.475	0.487	0.481	0.359
0.312	0.352	0.342	0.347	0.225
0.156	0.286	0.280	0.283	0.161
0	0.124	0.120	0.122	

Msds

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