

Rat Rantes ELISA Kit | Ccl5 elisa kit

Rat Rantes Quick ELISA Kit

CATALOG #
AAA125863

REACTIVITY
Rat

PRODUCT SYNONYMS

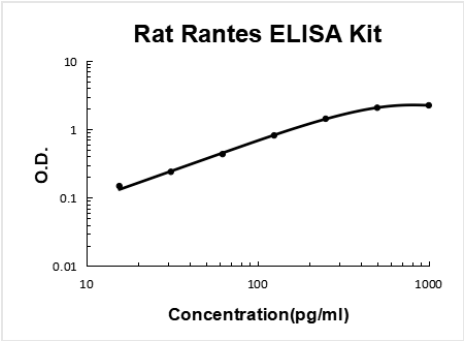
Rantes; Rat Rantes Quick ELISA Kit; CCL5/RANTES|CCL5; chemokine (C-C motif) ligand 5; D17S136Enormally T-expressed; and presumably secreted; EoCP; Eosinophil chemotactic cytokine; RANTES; SISd; SIS-delta; small inducible cytokine A5 (RANTES); small inducible cytokine subfamily A (Cys-Cys); member 5; Small-inducible cytokine A5; T cell-specific protein P228; T-cell specific protein p288; TCP228T-cell-specific protein RANTES; Ccl5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Ccl5
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants. serum and plasma (heparin, EDTA, citrate)
Detection Range	15.6pg/ml-1,000pg/ml
Sensitivity	<1pg/ml
Capture/Detection Antibodies	Capture antibody- polyclonal antibody from goat Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 15.6 31.2 62.5 125 250 500 1000 O.D. 0.016 0.164 0.255 0.450 0.831 1.445 2.087 2.262
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 32 212 364 Standard deviation 2.02 16.32 20.02 CV(%) 6.3% 7.7% 5.5%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 36 199 351 Standard deviation 2.74 14.13 25.62 CV(%) 7.6% 7.1% 7.3%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 32 30 36 29 32 1.65 5.2% Sample 2: 212 180 196 206 199 9.73 4.9% Sample 3: 364 397 405 374 385 6.93 1.8% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: E Coli; Immunogen sequence: S24-S91
Anticoagulant	heparin, EDTA or citrate
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Rat Rantes with <1pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Rat Ccl5 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat Ccl5 in cell culture supernatants, serum and plasma (heparin, EDTA, citrate). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Rat Ccl5 with immunogen: Expression system for standard: E Coli; Immunogen sequence: S24-S91. To measure Rat Ccl5, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Rat Ccl5 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat Ccl5 in the sample.
Assay Procedure Step 1	1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml
TMB Incubation Time	15
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for Ccl5 elisa kit	Rantes(regulated on activation normal T cell expressed and secreted) is one of the natural ligands for the chemokine receptor CCR5 and potently suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Peripheral blood mononuclear cells or CD4(+) lymphocytes obtained from different individuals have wide variations in their ability to secrete RANTES. The Rantes gene product is predicted to be 10 kDa and, after cleavage of the signal peptide, approximately 8 kDa. Of the 68 residues, 4 are cysteines, and there are no sites for N-linked glycosylation. Rantes is expressed by cultured T cell lines that are Ag specific and growth factor dependent.
Product Categories/Family for Ccl5 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	1711393
NCBI GeneID	81780
UniProt Accession #	P50231
Molecular Weight	10,170 Da
NCBI Official Full Name	C-C motif chemokine 5
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 5

NCBI Official Symbol	Ccl5
NCBI Official Synonym Symbols	Scya5; Rantes
NCBI Protein Information	C-C motif chemokine 5; SIS-delta; T-cell-specific protein RANTES; regulated upon activation normal T-cell expressed and secreted; small inducible cytokine A5; small-inducible cytokine A5
UniProt Protein Name	C-C motif chemokine 5
UniProt Gene Name	Ccl5
UniProt Synonym Gene Names	Scya5
UniProt Entry Name	CCL5_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/ccl5-rat-elisa-kits/rantes/125863>