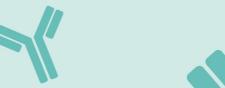
antibodies - online.com







CCL5 ELISA Kit



Publications



Overview

Quantity:	96 tests
Target:	CCL5
Binding Specificity:	AA 24-91
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Rantes
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate), Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli
	Immunogen sequence: S24-S91
Specificity:	Expression system for standard: E.coli
	Immunogen sequence: S24-S91
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<3pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
Target:	CCL5
Alternative Name:	CCL5 (CCL5 Products)
Background:	Background: 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. Synonyms: C-C motif chemokine ,CCL5 ,hCG_32592 , Full Gene Name: C-C motif chemokine Cellular Localisation: Secreted.
Gene ID:	6352
UniProt:	D0EI67
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of G-Protein Coupled Receptor Protein Signaling, Smooth Muscle Cell Migration
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	human Rantes ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Rantes has been precoated onto 96-well plates. Standards(E.coli, S24-S91) and test samples are added to the wells, a

Application Details

biotinylated detection polyclonal antibody from goat specific for Rantes is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Rantes amount of sample captured in plate.

Assay Procedure:

Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human Rantes standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma(heparin, EDTA, citrate) or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human Rantes standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 147, Standard deviation: 5.88, CV(%): 4
- Sample 2: n=16, Mean(pg/ml): 293, Standard deviation: 15.53, CV(%): 5.3
- Sample 3: n=16, Mean(pg/ml): 501, Standard deviation: 31.1, CV(%): 6.2,
- Sample 1: n=24, Mean(pg/ml): 110, Standard deviation: 8.14, CV(%): 7.4
- Sample 2: n=24, Mean(pg/ml): 339, Standard deviation: 24.41, CV(%): 7.2
- Sample 3: n=24, Mean(pg/ml): 658, Standard deviation: 56.6, CV(%): 8.6

Restrictions:

For Research Use only

Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Publications

Product cited in:

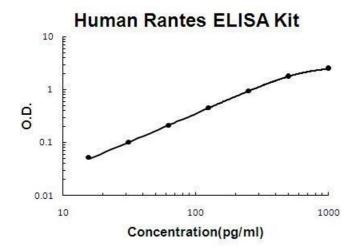
Zhong, Tong, Li, Yuan, Hu, Hu, Song: "Mesenchymal stem cells in inflammatory microenvironment potently promote metastatic growth of cholangiocarcinoma via activating Akt/NF-kB signaling by paracrine CCL5." in: **Oncotarget**, Vol. 8, Issue 43, pp. 73693-73704, (2017) (PubMed).

Liu, An, Liu, Li, Tang, Chen: "Mouse lung slices: An ex vivo model for the evaluation of antiviral and anti-inflammatory agents against influenza viruses." in: **Antiviral research**, Vol. 120, pp. 101-11, (2015) (PubMed).

Zhao, Bu, Wang, Ma, Ma: "GEC-derived SFRP5 inhibits Wnt5a-induced macrophage chemotaxis and activation." in: **PLoS ONE**, Vol. 9, Issue 1, pp. e85058, (2014) (PubMed).

Li, Luo, Fan, Sun: "Dynamic changes in serum monocyte chemoattractant protein-1, and regulated upon activation, normal T cell expressed and secreted levels in patients with minor intracerebral hemorrhage." in: **Neurosciences (Riyadh, Saudi Arabia)**, Vol. 17, Issue 4, pp. 314-20, (2012) (PubMed).

Images



ELISA

Image 1. Human Rantes PicoKine ELISA Kit standard curve