

Datasheet for ABIN1672852

CCL4 ELISA Kit

[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	CCL4
Binding Specificity:	AA 24-92
Reactivity:	Rat
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 Rat CCL4/MIP-1 beta
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.Coli Immunogen sequence: A24-N92
Specificity:	Expression system for standard: E.Coli Immunogen sequence: A24-N92
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<10pg/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:	CCL4
Alternative Name:	CCL4 (CCL4 Products)
Background:	<p>Protein Function: Monokine with inflammatory and chemokinetic properties.</p> <p>Background: Chemokine(C-C motif) ligand 4, also known as CCL4, is a protein which in mouse is encoded by the CCL4 gene. It is a CC chemokine with specificity for CCR5 receptors. It is a chemoattractant for natural killer cells, monocytes and a variety of other immune cells. CCL4 is a major HIV-suppressive factor produced by CD8+ T cells. Performing-low memory CD8+ T cells that normally synthesize MIP-1-beta. By analysis of somatic cell hybrids and by in situ hybridization, the CCL4 gene was assigned to 17q21-q23. Based on functional analysis of MIP-1beta, one or more additional beta chemokine receptors that transduce MIP-1beta signals must also exist. MIP-1alpha and MIP-1beta have been shown to lack affinity for the erythrocyte surface chemokine receptor/Duffy antigen that binds many alpha as well as beta chemokines(11, 14).</p> <p>Synonyms: C-C motif chemokine 4,Macrophage inflammatory protein 1-beta,MIP-1-beta,Small-inducible cytokine A4,Ccl4,Mip1b, Scya4,</p> <p>Full Gene Name: C-C motif chemokine 4</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	116637
UniProt:	P50230

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:	rat CCL4 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay

Application Details

technology. A monoclonal antibody from mouse specific for CCL4 has been precoated onto 96-well plates. Standards(E.Coli, A24-N92) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL4 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is 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 rat CCL4 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 rat CCL4 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 rat cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each rat CCL4 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 35, Standard deviation: 1.3, CV(%): 3.7
- Sample 2: n=16, Mean(pg/ml): 112, Standard deviation: 6.1, CV(%): 5.4
- Sample 3: n=16, Mean(pg/ml): 367, Standard deviation: 21.3, CV(%): 5.8,
- Sample 1: n=24, Mean(pg/ml): 36, Standard deviation: 1.9, CV(%): 5.3
- Sample 2: n=24, Mean(pg/ml): 116, Standard deviation: 7.4, CV(%): 6.4
- Sample 3: n=24, Mean(pg/ml): 371, Standard deviation: 26.7, CV(%): 7.2

Restrictions: For Research Use only

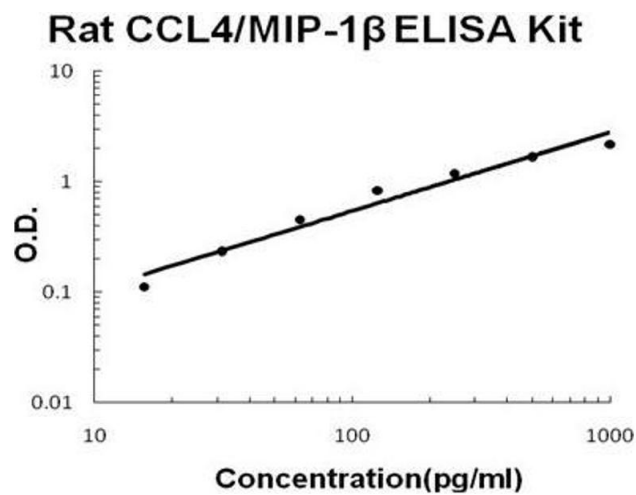
Handling

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



ELISA

Image 1. Rat CCL4/MIP-1 beta PicoKine ELISA Kit standard curve