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Datasheet for ABIN1672743

CCL4 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	CCL4
Binding Specificity:	AA 24-92
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	7.8-500 pg/mL
Minimum Detection Limit:	7.8 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human 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: <1pg/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: Protein Function: Monokine with inflammatory and chemokinetic properties. Binds to CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant MIP-1-beta induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form MIP-1-beta(3-69) retains the abilities to induce down-modulation of surface expression of the chemokine receptor CCR5 and to inhibit the CCR5-mediated entry of HIV-1 in T-cells. MIP-1-beta(3-69) is also a ligand for CCR1 and CCR2 isoform B. .

Background: Chemokine(C-C motif) ligand 4, also known as CCL4, is a protein which in humans 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. the CCL4 gene was assigned to a slightly more distal location: 17q21-q23 rather than 17q11-q21.

Synonyms: C-C motif chemokine 4,G-26 T-lymphocyte-secreted protein,HC21,Lymphocyte activation gene 1 protein,LAG-1,MIP-1-beta(1-69),Macrophage inflammatory protein 1-beta,MIP-1-beta,PAT 744,Protein H400,SIS-gamma,Small-inducible cytokine A4,T-cell activation protein 2,ACT-2,MIP-1-beta(3-69),CCL4,LAG1, MIP1B, SCYA4,

Full Gene Name: C-C motif chemokine 4

Cellular Localisation: Secreted.

Gene ID: 6351

UniProt: [P13236](#)

Application Details

Application Notes: Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

Application Details

assay was recommended for both standard and sample testing.

Comment: Sequence similarities: Belongs to the intercrine beta (chemokine CC) family.

Plate: Pre-coated

Protocol: human CCL4 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay 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 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 CCL4 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.3pg/mL, 15.6pg/mL, 7.8pg/mL human 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 human 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 human CCL4 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 32, Standard deviation: 1.3, CV(%): 4.1
- Sample 2: n=16, Mean(pg/ml): 91, Standard deviation: 3.8, CV(%): 4.2
- Sample 3: n=16, Mean(pg/ml): 324, Standard deviation: 15.2, CV(%): 4.7,
- Sample 1: n=24, Mean(pg/ml): 33, Standard deviation: 2.1, CV(%): 6.4
- Sample 2: n=24, Mean(pg/ml): 87, Standard deviation: 5.8, CV(%): 6.7
- Sample 3: n=24, Mean(pg/ml): 319, Standard deviation: 24.9, CV(%): 7.8

Restrictions: For Research Use only

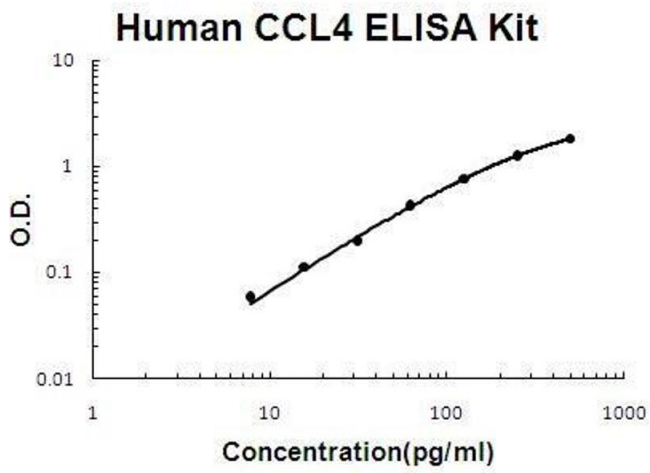
Handling

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