

Datasheet for ABIN1672757
CCL1 ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	CCL1
Binding Specificity:	AA 24-96
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 CCL1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: K24-K96
Specificity:	Expression system for standard: NSO Immunogen sequence: K24-K96
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<4pg/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:	CCL1
Alternative Name:	CCL1 (CCL1 Products)
Background:	<p>Protein Function: Cytokine that is chemotactic for monocytes but not for neutrophils. Binds to CCR8. .</p> <p>Background: CCL1, Chemokine(C-C motif) ligand 1, is one of several cytokine genes clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The protein encoded by this gene is structurally related to the CXC subfamily of cytokines. Members of this subfamily are characterized by two cysteines separated by a single amino acid. This cytokine is secreted by activated T cells and displays chemotactic activity for monocytes but not for neutrophils. It binds to the chemokine receptor CCR8.</p> <p>Synonyms: C-C motif chemokine 1,Small-inducible cytokine A1,T lymphocyte-secreted protein I-309,CCL1,SCYA1,</p> <p>Full Gene Name: C-C motif chemokine 1</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	6346
UniProt:	P22362

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.
Comment:	Sequence similarities: Belongs to the intercrine beta (chemokine CC) family.
Plate:	Pre-coated
Protocol:	human CCL1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CCL1 has been precoated onto 96-

Application Details

well plates. Standards(NSO, K24-K96) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL1 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 CCL1 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 CCL1 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) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human CCL1 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 46, Standard deviation: 2.1, CV(%): 4.6
- Sample 2: n=16, Mean(pg/ml): 125, Standard deviation: 6.4, CV(%): 5.1
- Sample 3: n=16, Mean(pg/ml): 738, Standard deviation: 53.1, CV(%): 7.2,
- Sample 1: n=24, Mean(pg/ml): 48, Standard deviation: 3.0, CV(%): 6.3
- Sample 2: n=24, Mean(pg/ml): 127, Standard deviation: 8.5, CV(%): 6.7
- Sample 3: n=24, Mean(pg/ml): 741, Standard deviation: 54.8, CV(%): 7.4

Restrictions: For Research Use only

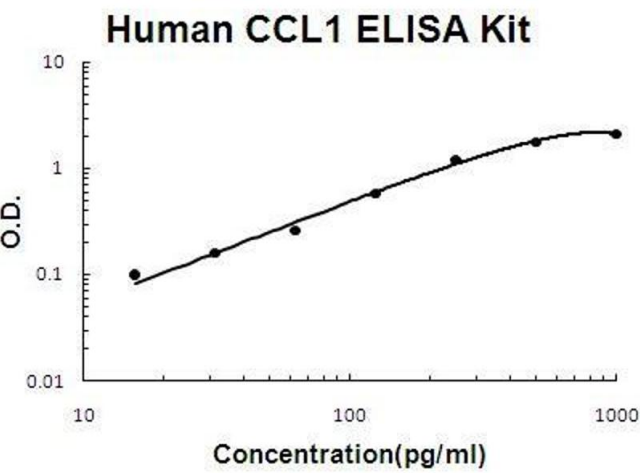
Handling

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 CCL1 PicoKine ELISA Kit standard curve