

Datasheet for ABIN411325

## CCL3 ELISA Kit



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### 1 Image

#### Overview

Quantity:	96 tests
Target:	CCL3
Binding Specificity:	AA 27-92
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 MIP-1 alpha
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: A27-A92
Specificity:	Expression system for standard: E.coli Immunogen sequence: A27-A92
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:	CCL3
Alternative Name:	CCL3 ( <a href="#">CCL3 Products</a> )
Background:	<p>Background: Macrophage inflammatory protein-1 alpha(MIP-1 alpha), also called CCL3, LD78. The cDNA for MIP-1 alpha predicts a mature peptide of 69 amino acids with a molecular mass of 7,889 daltons. LD78 is a member of a newly identified superfamily of small inducible proteins involved in inflammatory responses, wound healing and tumorigenesis. MIP-1 alpha is a chemokine that has pro-inflammatory and stem cell inhibitory activities in vitro. It constitutes an important second signal for mast cell degranulation in the conjunctiva in vivo and consequently for acute-phase disease. The standard product used in this kit is recombinant human MIP-1alpha, consisting of 66 amino acids with the molecular mass of 7.5 kDa.</p> <p>Synonyms: C-C motif chemokine ,CCL3 ,hCG_1749202 ,</p> <p>Full Gene Name: C-C motif chemokine</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	6348
UniProt:	<a href="#">A0N0R1</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin, Autophagy</a>

## 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 MIP-1 alpha ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for MIP-1 alpha has been precoated onto 96-well plates. Standards(E.coli, A27-A92) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for MIP-1 alpha is

## Application Details

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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 MIP-1 alpha 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 MIP-1 alpha 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 MIP-1 alpha standard solution and each sample be measured in duplicate.

**Assay Precision:**

- Sample 1: n=16, Mean(pg/ml): 107, Standard deviation: 4.39, CV(%): 4.1
- Sample 2: n=16, Mean(pg/ml): 450, Standard deviation: 13.05, CV(%): 2.9
- Sample 3: n=16, Mean(pg/ml): 732, Standard deviation: 25.62, CV(%): 3.5,
- Sample 1: n=24, Mean(pg/ml): 95, Standard deviation: 6.84, CV(%): 7.2
- Sample 2: n=24, Mean(pg/ml): 413, Standard deviation: 22.3, CV(%): 5.4
- Sample 3: n=24, Mean(pg/ml): 682, Standard deviation: 34.78, CV(%): 5.1

**Restrictions:** For Research Use only

## Handling

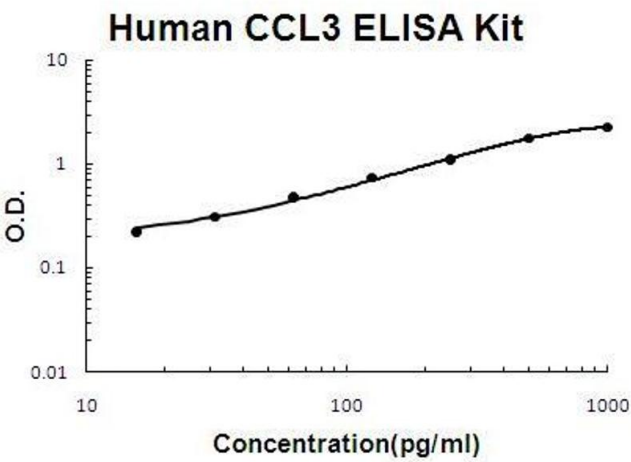
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**Handling Advice:** Avoid multiple freeze-thaw cycles.

**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 MIP-1 alpha PicoKine ELISA Kit standard curve