

Datasheet for ABIN1706078

CCL16 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity: 96 tests

Target: CCL16

Binding Specificity: AA 24-120

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 CCL16/HCC-4

Brand: PicoKine™

Sample Type: Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)

Analytical Method: Quantitative

Detection Method: Colorimetric

Immunogen: Expression system for standard: E.coli
Immunogen sequence: Q24-Q120Specificity: Expression system for standard: E.coli
Immunogen sequence: Q24-Q120

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: CCL16

Alternative Name: CCL16 ([CCL16 Products](#))

Background: Protein Function: Shows chemotactic activity for lymphocytes and monocytes but not neutrophils. Also shows potent myelosuppressive activity, suppresses proliferation of myeloid progenitor cells. Recombinant SCYA16 shows chemotactic activity for monocytes and THP-1 monocytes, but not for resting lymphocytes and neutrophils. Induces a calcium flux in THP-1 cells that were desensitized by prior expression to RANTES.

Background: Chemokine(C-C motif) ligand 16(CCL16) is a small cytokine belonging to the CC chemokine family that is known under several pseudonyms, including Liver-expressed chemokine(LEC) and Monotactin-1(MTN-1). This chemokine is expressed by the liver, thymus, and spleen and is chemoattractive for monocytes and lymphocytes. Cellular expression of CCL16 can be strongly induced in monocytes by IL-10, IFN-gamma and bacterial lipopolysaccharide. Its gene is located on chromosome 17, in humans, among a cluster of other CC chemokines. CCL16 elicits its effects on cells by interacting with cell surface chemokine receptors such as CCR1, CCR2, CCR5 and CCR8.

Synonyms: C-C motif chemokine 16,Chemokine CC-4,HCC-4,Chemokine LEC,IL-10-inducible chemokine,LCC-1,Liver-expressed chemokine,Lymphocyte and monocyte chemoattractant,LMC,Monotactin-1,MTN-1,NCC-4,Small-inducible cytokine A16,CCL16,ILINCK, NCC4, SCYA16,

Full Gene Name: C-C motif chemokine 16

Cellular Localisation: Secreted.

Gene ID: 6360

UniProt: [015467](#)

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.
Tissue Specificity: Mainly expressed in liver, also found in spleen and thymus. Highly expressed in LPS- and IFN-gamma- activated monocytes, weakly in some lymphocytes, including natural killer cells, gamma-delta T-cells, and some T-cell clones.

Plate: Pre-coated

Protocol: human CCL16 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CCL16 has been precoated onto 96-well plates. Standards(E.coli, Q24-Q120) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL16 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 CCL16 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 CCL16 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. We recommend that each human CCL16 standard solution and each sample is measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 25, Standard deviation: 0.80, CV(%): 3.2
- Sample 2: n=16, Mean(pg/ml): 76, Standard deviation: 4.26, CV(%): 5.6
- Sample 3: n=16, Mean(pg/ml): 237, Standard deviation: 13.98, CV(%): 5.9,
- Sample 1: n=24, Mean(pg/ml): 26, Standard deviation: 1.51, CV(%): 5.8
- Sample 2: n=24, Mean(pg/ml): 81, Standard deviation: 5.02, CV(%): 6.2
- Sample 3: n=24, Mean(pg/ml): 242, Standard deviation: 16.21, CV(%): 6.7

Restrictions: For Research Use only

Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

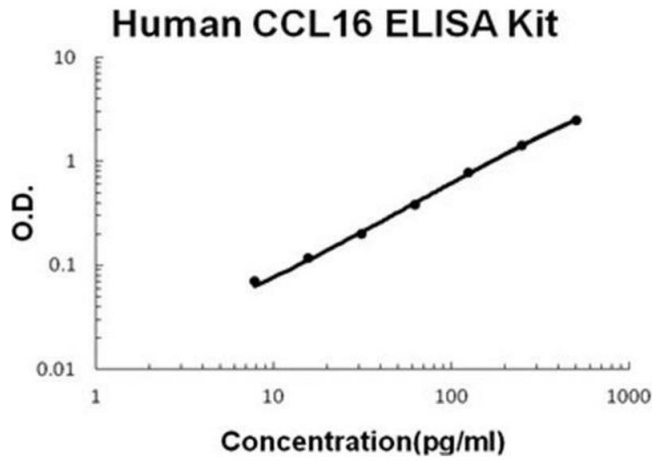
Storage: -20 °C, 4 °C

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

Handling

Expiry Date: 12 months

Images



ELISA

Image 1. Human CCL16/HCC-4 PicoKine ELISA Kit standard curve