

Datasheet for ABIN921088

CCL17 ELISA Kit**1** Image**1** Publication[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	CCL17
Binding Specificity:	AA 24-94
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CCL17/TARC
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: A24-S94
Specificity:	Expression system for standard: E.coli Immunogen sequence: A24-S94
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:	CCL17
Alternative Name:	CCL17 (CCL17 Products)
Background:	<p>Protein Function: Chemotactic factor for T-lymphocytes but not monocytes or granulocytes. May play a role in T-cell development in thymus and in trafficking and activation of mature T-cells. Binds to CCR4. .</p> <p>Background: Chemokine(C-C motif) ligand 17(CCL17) is a small cytokine belonging to the CC chemokine family that is also known as thymus and activation regulated chemokine(TARC). CCL17 is expressed constitutively in thymus, but only transiently in phytohemagglutinin-stimulated peripheral blood mononuclear cells.1 This chemokine specifically binds and induces chemotaxis in T cells and elicits its effects by interacting with the chemokine receptor CCR4.1,2The gene for CCL17 is located on chromosome 16, in humans, along with other chemokines called CCL22 and CX3CL1.3,4 The standard used in this kit is recombinant human CCL17, consisting of 71 amino acids with the molecular weight of 8Kda.</p> <p>Synonyms: C-C motif chemokine 17,CC chemokine TARC,Small-inducible cytokine A17,Thymus and activation-regulated chemokine,CCL17,SCYA17, TARC,</p> <p>Full Gene Name: C-C motif chemokine 17</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	6361
UniProt:	Q92583

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:	<p>Sequence similarities: Belongs to the intercrine beta (chemokine CC) family.</p> <p>Tissue Specificity: Expressed at high levels in thymus and at low levels in the lung, colon and small intestine.</p>

Application Details

Plate:	Pre-coated
Protocol:	human CCL17 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CCL17 has been precoated onto 96-well plates. Standards(E.coli, A24-S94) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL17 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 CCL17 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human CCL17 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 CCL17 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 103, Standard deviation: 6.90, CV(%): 6.7• Sample 2: n=16, Mean(pg/ml): 421, Standard deviation: 24.84, CV(%): 5.9• Sample 3: n=16, Mean(pg/ml): 1214, Standard deviation: 63.13, CV(%): 5.2,• Sample 1: n=24, Mean(pg/ml): 110, Standard deviation: 10.67, CV(%): 9.7• Sample 2: n=24, Mean(pg/ml): 462, Standard deviation: 42.97, CV(%): 9.3• Sample 3: n=24, Mean(pg/ml): 1283, Standard deviation: 110.34, CV(%): 8.6
Restrictions:	For Research Use only

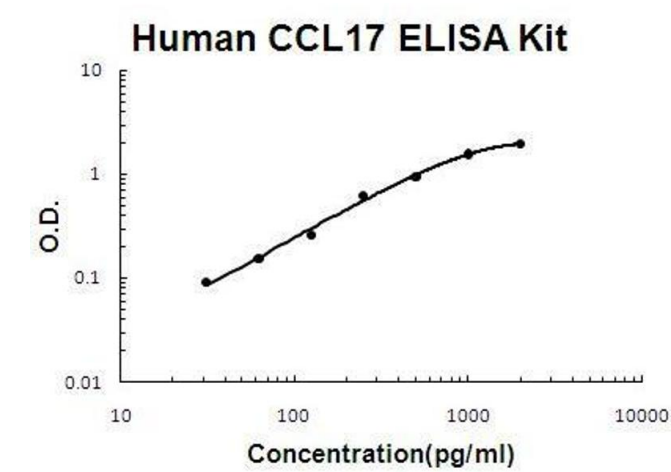
Handling

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

Publications

Product cited in:	Bi, Zeng, Zhao, Wei, Yu, Wang, Yu, Cao, Shan, Wei: "miR-181a Induces Macrophage Polarized to M2 Phenotype and Promotes M2 Macrophage-mediated Tumor Cell Metastasis by Targeting
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KLF6 and C/EBPα." in: **Molecular therapy. Nucleic acids**, Vol. 5, Issue 9, pp. e368, (2016) ([PubMed](#)).



ELISA

Image 1. Human CCL17/TARC PicoKine ELISA Kit standard curve