

Datasheet for ABIN1672771
CCL18 ELISA Kit



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1 Image

Overview

Quantity:	96 tests
Target:	CCL18
Binding Specificity:	AA 21-89
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 CCL18/PARC
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: A21-A89
Specificity:	Expression system for standard: E.coli Immunogen sequence: A21-A89
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:	CCL18
Alternative Name:	CCL18 (CCL18 Products)
Background:	<p>Protein Function: Chemotactic factor that attracts lymphocytes but not monocytes or granulocytes. May be involved in B-cell migration into B-cell follicles in lymph nodes. Attracts naive T-lymphocytes toward dendritic cells and activated macrophages in lymph nodes, has chemotactic activity for naive T-cells, CD4+ and CD8+ T-cells and thus may play a role in both humoral and cell-mediated immunity responses. .</p> <p>Background: Chemokine(C-C motif) ligand 18(CCL18) is a small cytokine belonging to the CC chemokine family that was previously called PARC(pulmonary and activation-regulated chemokine). CCL18 is approximately 60 % identical in amino acid sequence to CCL3. By analysis of a previously mapped CCL18 from 17q11.2, it is determined that the PARC gene is located within 1 of the 2 clusters of CC chemokine genes in this region. It is expressed at high levels in lung and at lower levels in certain lymphoid tissues, such as the lymph nodes, and is chemotactic for activated T cells and nonactivated lymphocytes. Beside, CCL18 recruits Th2 cells and basophils and may play a predominant role in allergic asthma.</p> <p>Synonyms: C-C motif chemokine 18,Alternative macrophage activation-associated CC chemokine 1,AMAC-1,CC chemokine PARC,Dendritic cell chemokine 1,DC-CK1,Macrophage inflammatory protein 4,MIP-4,Pulmonary and activation-regulated chemokine,Small-inducible cytokine A18,CCL18(1-68),CCL18(3-69),CCL18(4-69),CCL18,AMAC1, DCCK1, MIP4, PARC, SCYA18,</p> <p>Full Gene Name: C-C motif chemokine 18</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	6362
UniProt:	P55774

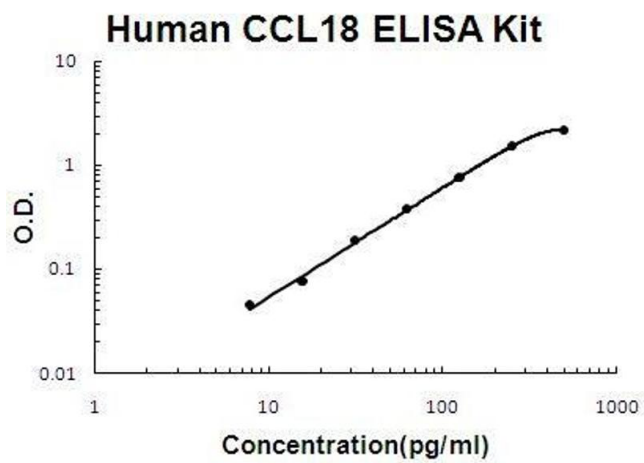
Application Details

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 lung, lymph nodes, placenta, bone marrow, dendritic cells present in germinal centers and T-cell areas of secondary lymphoid organs and macrophages derived from peripheral blood monocytes. Not expressed by peripheral blood monocytes and a monocyte-to-macrophage differentiation is a prerequisite for expression. Expressed in synovial fluids from patients with rheumatoid and septic arthritis and in ovarian carcinoma ascitic fluid. .</p>
Plate:	Pre-coated
Protocol:	human CCL18 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CCL18 has been precoated onto 96-well plates. Standards(E.coli, A21-A89) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL18 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is 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 CCL18 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 CCL18 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 or serum to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each human CCL18 standard solution and each sample is measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 49, Standard deviation: 1.62, CV(%): 3.3• Sample 2: n=16, Mean(pg/ml): 199, Standard deviation: 7.36, CV(%): 3.7• Sample 3: n=16, Mean(pg/ml): 346, Standard deviation: 14.88, CV(%): 4.3,• Sample 1: n=24, Mean(pg/ml): 53, Standard deviation: 3.66, CV(%): 6.9• Sample 2: n=24, Mean(pg/ml): 218, Standard deviation: 15.70, CV(%): 7.2• Sample 3: n=24, Mean(pg/ml): 362, Standard deviation: 27.87, CV(%): 7.7
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
Expiry Date:	12 months

Images



ELISA

Image 1. Human CCL18/PARC PicoKine ELISA Kit standard curve