Datasheet for ABIN1706071

CCL15 ELISA Kit

1 Image

Go to Product page

Overview

Quantity:	96 tests
Target:	CCL15
Binding Specificity:	AA 22-113
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 CCL15
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: Q22-I113
Specificity:	Expression system for standard: E.coli Immunogen sequence: Q22-I113
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:	CCL15
Alternative Name:	CCL15 (CCL15 Products)
Background:	Protein Function: Chemotactic factor that attracts T-cells and monocytes, but not neutrophils, eosinophils, or B-cells. Acts mainly via CC chemokine receptor CCR1. Also binds to CCR3. CCL15(22-92), CCL15(25-92) and CCL15(29-92) are more potent chemoattractants than the small-inducible cytokine A15. . Background: Chemokine(C-C motif) ligand 15(CCL15) is a small cytokine belonging to the CC chemokine family that is also known as leukotactin-1, MIP5 and HCC-2. CCL15 is expressed in liver, small intestine, colon, and in certain leukocytes and macrophages of the lung. It is chemotactic for neutrophils, monocytes, and lymphocytes and elicits its effects by binding to cell surface chemokine receptors like CCR1 and CCR3. The human CCL15 gene spans four exons and is located in a head-to-tail orientation on chromosome 17 with the gene of another CC chemokine known as CCL14. Synonyms: C-C motif chemokine 15,Chemokine CC-2,HCC-2,Leukotactin-1,LKN-1,MIP-1 delta,Macrophage inflammatory protein 5,MIP-5,Mrp-2b,NCC-3,Small-inducible cytokine A15,CCL15(22-92),CCL15(25-92),CCL15(29-92),CCL15,MIP5, NCC3, SCYA15, Full Gene Name: C-C motif chemokine 15 Cellular Localisation: Secreted.
Gene ID:	6359
UniProt:	Q16663

Application Details

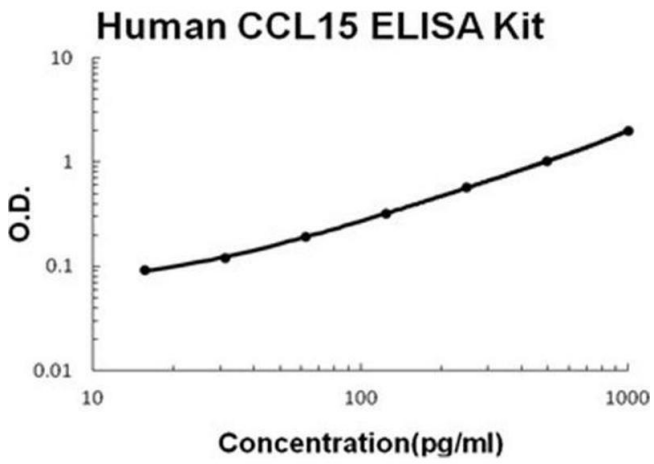
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the intercrine beta (chemokine CC) family. Tissue Specificity: Most abundant in heart, skeletal muscle and adrenal gland. Lower levels in

Application Details

	placenta, liver, pancreas and bone marrow. CCL15(22-92), CCL15(25-92) and CCL15(29-92) are found in high levels in synovial fluids from rheumatoid patients. .
Plate:	Pre-coated
Protocol:	human CCL15 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CCL15 has been precoated onto 96-well plates. Standards(E.coli, Q22-I113) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL15 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 CCL15 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 CCL15 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 CCL15 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 43, Standard deviation: 3.14, CV(%): 7.3 • Sample 2: n=16, Mean(pg/ml): 173, Standard deviation: 12.46, CV(%): 7.2 • Sample 3: n=16, Mean(pg/ml): 642, Standard deviation: 52.64, CV(%): 8.2, • Sample 1: n=24, Mean(pg/ml): 44, Standard deviation: 3.83, CV(%): 8.7 • Sample 2: n=24, Mean(pg/ml): 179, Standard deviation: 16.65, CV(%): 9.3 • Sample 3: n=24, Mean(pg/ml): 657, Standard deviation: 65.04, CV(%): 9.9
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 CCL15 PicoKine ELISA Kit standard curve