

Datasheet for ABIN1672724
CCL24 ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	CCL24
Binding Specificity:	AA 27-119
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	78-5000 pg/mL
Minimum Detection Limit:	78 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CCL24/Eotaxin-2
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: V27-C119
Specificity:	Expression system for standard: E.coli Immunogen sequence: V27-C119
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<2pg/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:	CCL24
Alternative Name:	CCL24 (CCL24 Products)
Background:	<p>Protein Function: Chemotactic for resting T-lymphocytes, and eosinophils. Has lower chemotactic activity for neutrophils but none for monocytes and activated lymphocytes. Is a strong suppressor of colony formation by a multipotential hematopoietic progenitor cell line. Binds to CCR3.</p> <p>Background: Chemokine(C-C motif) ligand 24(CCL24) also known as myeloid progenitor inhibitory factor 2(MPIF-2) or eosinophil chemotactic protein 2(eotaxin-2) is a protein that in humans is encoded by the CCL24 gene. By use of PCR analysis of somatic cell hybrid DNAs, radiation hybrid mapping, and a chromosome 7-specific YAC library, mapped the SCYA24 gene to chromosome 7q11.23. CCL24 is a small cytokine belonging to the CC chemokine family. CCL24 interacts with chemokine receptor CCR3 to induce chemotaxis in eosinophils.³ This chemokine is also strongly chemotactic for resting T lymphocytes and slightly chemotactic for neutrophils.</p> <p>Synonyms: C-C motif chemokine 24,CK-beta-6,Eosinophil chemotactic protein 2,Eotaxin-2,Myeloid progenitor inhibitory factor 2,MPIF-2,Small-inducible cytokine A24,CCL24,MPIF2, SCYA24,</p> <p>Full Gene Name: C-C motif chemokine 24</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	6369
UniProt:	O00175
Pathways:	Regulation of Actin Filament Polymerization

Application Details

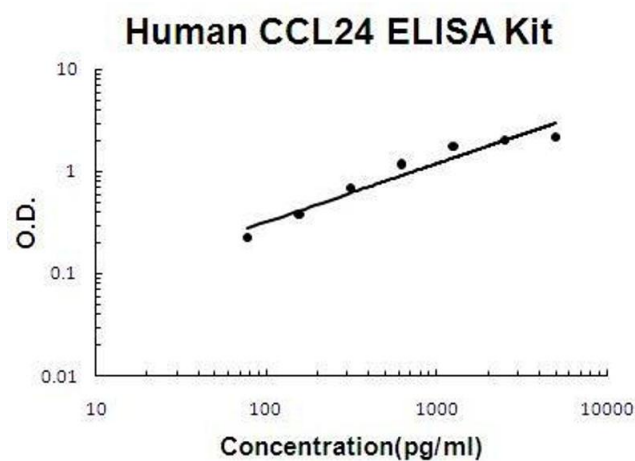
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
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Application Details

Comment:	Sequence similarities: Belongs to the intercrine beta (chemokine CC) family. Tissue Specificity: Activated monocytes and activated T lymphocytes.
Plate:	Pre-coated
Protocol:	human CCL24 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CCL24 has been precoated onto 96-well plates. Standards(E.coli, V27-C119) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL24 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 CCL24 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL, 78pg/mL human CCL24 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 CCL24 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 525, Standard deviation: 40.95, CV(%): 7.8• Sample 2: n=16, Mean(pg/ml): 1357, Standard deviation: 97.7, CV(%): 7.2• Sample 3: n=16, Mean(pg/ml): 2556, Standard deviation: 158.5, CV(%): 6.2,• Sample 1: n=24, Mean(pg/ml): 630, Standard deviation: 55.44, CV(%): 8.8• Sample 2: n=24, Mean(pg/ml): 1749, Standard deviation: 129.4, CV(%): 7.4• Sample 3: n=24, Mean(pg/ml): 3018, Standard deviation: 268.6, CV(%): 8.9
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 CCL24/Eotaxin-2 PicoKine ELISA Kit standard curve