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Datasheet for ABIN1889310

CCL27 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	CCL27
Binding Specificity:	AA 25-112
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 CCL27/CTACK
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: F25-G112
Specificity:	Expression system for standard: E.coli Immunogen sequence: F25-G112
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: CCL27

Alternative Name: CCL27 ([CCL27 Products](#))

Background: Protein Function: Chemotactic factor that attracts skin-associated memory T-lymphocytes. May play a role in mediating homing of lymphocytes to cutaneous sites. Binds to CCR10.
Background: Chemokine(C-C motif) ligand 27(CCL27) is a small cytokine belonging to the CC chemokine family, it is also known under the names IL-11 R-alpha-locus chemokine(ILC), Skinkine, ESkine and Cutaneous T-cell-attracting chemokine(CTACK). This gene is mapped to 9p13.3. CCL27 is associated with homing of memory T lymphocytes to the skin, and plays a role in T cell-mediated inflammation of the skin. CCL27 is expressed in numerous tissues, including gonads, thymus, placenta and skin. It elicits its chemotactic effects by binding to the chemokine receptor CCR10.
Synonyms: C-C motif chemokine 27,CC chemokine ILC,Cutaneous T-cell-attracting chemokine,CTACK,ESkine,IL-11 R-alpha-locus chemokine,Skinkine,Small-inducible cytokine A27,CCL27,ILC, SCYA27,
Full Gene Name: C-C motif chemokine 27
Cellular Localisation: Secreted.

Gene ID: 10850

UniProt: [Q9Y4X3](#)

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: Testis, thymus, placenta, ovary and skin.

Plate: Pre-coated

Application Details

Protocol: human CCL27 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CCL27 has been precoated onto 96-well plates. Standards(E.coli, F25-G112) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL27 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 CCL27 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 CCL27 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 CCL27 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 352, Standard deviation: 14.78, CV(%): 4.2
- Sample 2: n=16, Mean(pg/ml): 794, Standard deviation: 30.97, CV(%): 3.9
- Sample 3: n=16, Mean(pg/ml): 1456, Standard deviation: 77.17, CV(%): 5.3,
- Sample 1: n=24, Mean(pg/ml): 376, Standard deviation: 31.58, CV(%): 8.4
- Sample 2: n=24, Mean(pg/ml): 822, Standard deviation: 64.94, CV(%): 7.9
- Sample 3: n=24, Mean(pg/ml): 1570, Standard deviation: 111.47, CV(%): 7.1

Restrictions: For Research Use only

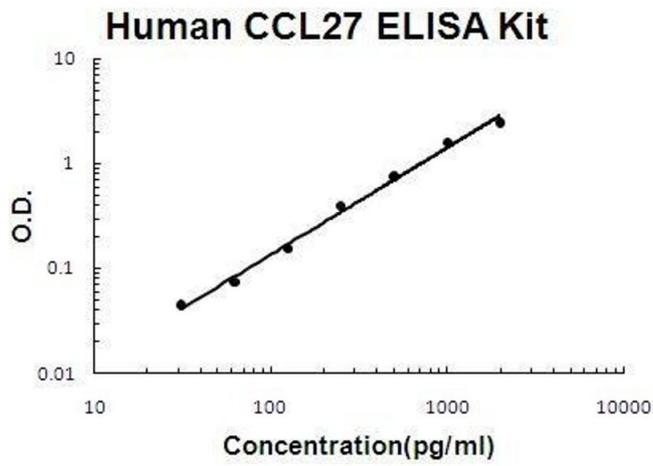
Handling

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 CCL27/CTACK PicoKine ELISA Kit standard curve