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Datasheet for ABIN1889320

XCL1 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	XCL1
Binding Specificity:	AA 22-114
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human XCL1/Lymphotactin
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: V22-G114
Specificity:	Expression system for standard: E.coli Immunogen sequence: V22-G114
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: XCL1

Alternative Name: XCL1 ([XCL1 Products](#))

Background: Protein Function: Chemotactic activity for lymphocytes but not for monocytes or neutrophils.
Background: Chemokine(C motif) ligand(XCL1) is a small cytokine belonging to the XC chemokine family that is also known as lymphotactin. This gene is mapped to chromosome 1q23 by FISH. The sequence of the deduced 114-amino acid protein is most homologous to the CC chemokines CCL8 and CCL3. It is found in high levels in spleen, thymus, intestine and peripheral blood leukocytes, and at lower levels in lung, prostate gland and ovary. XCL1 induces the migration of cells expressing XCR1.
Synonyms: Lymphotactin, ATAC, C motif chemokine 1, Cytokine SCM-1, Lymphotaxin, SCM-1-alpha, Small-inducible cytokine C1, XC chemokine ligand 1, XCL1, LTN, SCYC1,
Full Gene Name: Lymphotactin
Cellular Localisation: Secreted.

Gene ID: 6375

UniProt: [P47992](#)

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Activated T Cell Proliferation](#)

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 gamma family.
Tissue Specificity: Highest level in spleen, lower in peripheral leukocytes and very low levels in lung, colon and small intestine.

Plate: Pre-coated

Application Details

Protocol: human XCL1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for XCL1 has been precoated onto 96-well plates. Standards(E.coli, V22-G114) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for XCL1 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 XCL1 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human XCL1 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 XCL1 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 1.08, Standard deviation: 0.045, CV(%): 4.2
- Sample 2: n=16, Mean(ng/ml): 2.12, Standard deviation: 0.076, CV(%): 3.6
- Sample 3: n=16, Mean(ng/ml): 3.85, Standard deviation: 0.2, CV(%): 5.2,
- Sample 1: n=24, Mean(ng/ml): 1.42, Standard deviation: 0.097, CV(%): 6.8
- Sample 2: n=24, Mean(ng/ml): 2.56, Standard deviation: 0.184, CV(%): 7.2
- Sample 3: n=24, Mean(ng/ml): 3.78, Standard deviation: 0.295, CV(%): 7.8

Restrictions: For Research Use only

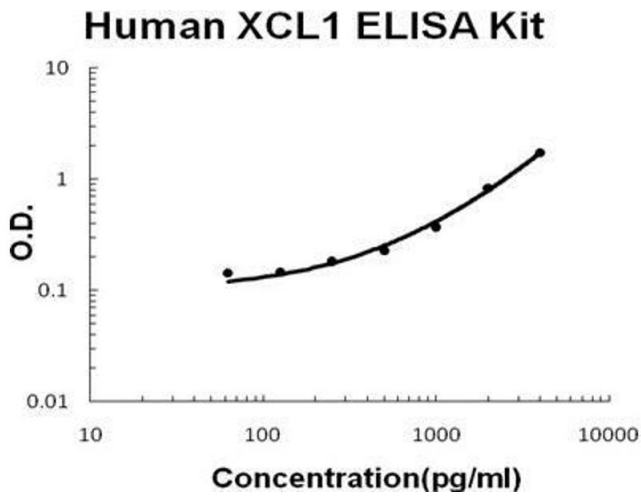
Handling

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 XCL1/Lymphotoctin PicoKine ELISA Kit standard curve