Datasheet for ABIN1672785

CXCL13 ELISA Kit

1 Image

Go to Product page

Overview

Quantity:	96 tests
Target:	CXCL13
Binding Specificity:	AA 23-94
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 CXCL13/BLC
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Saliva
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: V23-R94
Specificity:	Expression system for standard: E.coli Immunogen sequence: V23-R94
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

 Copyright antibodies-online. All rights reserved.

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:	CXCL13
Alternative Name:	CXCL13 (CXCL13 Products)
Background:	Protein Function: Chemotactic for B-lymphocytes but not for T-lymphocytes, monocytes and neutrophils. Does not induce calcium release in B- lymphocytes. Binds to BLR1/CXCR5. Background: C-X-C motif chemokine 13(CXCL13), also known as B lymphocyte chemoattractant(BLC), is a protein that in humans is encoded by theCXCL13 gene. CXCL13 is a small cytokine belonging to the CXC chemokine family, and it was located on sequence maps to 4q21, near the genes encoding most CXC chemokines. In T-lymphocytes, CXCL13 expression is thought to reflect a germinal center origin of the T-cell. Hence, expression of CXCL13 in T-cell lymphomas, such as Angioimmunoblastic T-cell Lymphoma, is thought to reflect a germinal center origin of the neoplastic T-cells Synonyms: C-X-C motif chemokine 13,Angie,B cell-attracting chemokine 1,BCA-1,B lymphocyte chemoattractant,CXC chemokine BLC,Small-inducible cytokine B13,CXCL13,BCA1, BLC, SCYB13, Full Gene Name: C-X-C motif chemokine 13 Cellular Localisation: Secreted.
Gene ID:	10563
UniProt:	O43927

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 alpha (chemokine CxC) family. Tissue Specificity: Highest levels in liver, followed by spleen, lymph node, appendix and stomach. Low levels in salivary gland, mammary gland and fetal spleen.

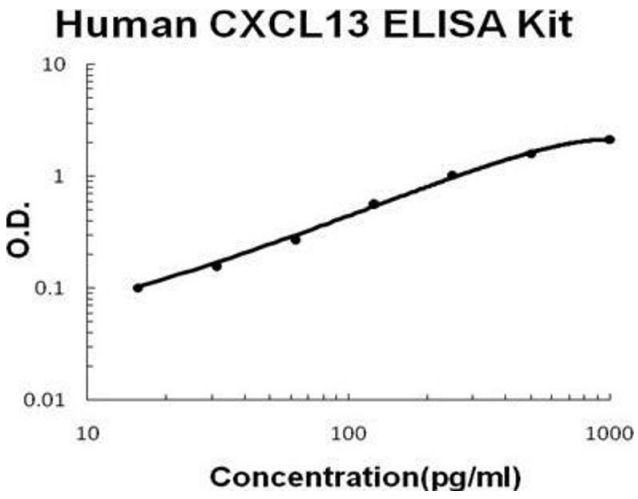
Application Details

Plate:	Pre-coated
Protocol:	human CXCL13 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CXCL13 has been precoated onto 96-well plates. Standards(E.coli, V23-R94) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CXCL13 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 CXCL13 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 CXCL13 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, plasma(heparin, EDTA) or saliva to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human CXCL13 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 54.2, Standard deviation: 3.63, CV(%): 6.7 • Sample 2: n=16, Mean(pg/ml): 249, Standard deviation: 9.46, CV(%): 3.8 • Sample 3: n=16, Mean(pg/ml): 469, Standard deviation: 18.3, CV(%): 3.9, • Sample 1: n=24, Mean(pg/ml): 53.6, Standard deviation: 4.4, CV(%): 8.2 • Sample 2: n=24, Mean(pg/ml): 238, Standard deviation: 11.7, CV(%): 4.9 • Sample 3: n=24, Mean(pg/ml): 512, Standard deviation: 26.1, CV(%): 5.1
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

Copyright antibodies-online. All rights reserved.



ELISA

Image 1. Human CXCL13/BLC PicoKine ELISA Kit standard curve

Copyright antibodies-online. All rights reserved.