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Datasheet for ABIN1672786 CXCL13 ELISA Kit

Image



### Overview

Quantity:	96 tests
Target:	CXCL13
Binding Specificity:	AA 22-109
Reactivity:	Mouse
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 Mouse CXCL13/BLC
Brand:	PicoKine™
DI dI IU.	FICONITE
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: I22-A109
Specificity:	Expression system for standard: E.coli
	Immunogen sequence: I22-A109
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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## 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

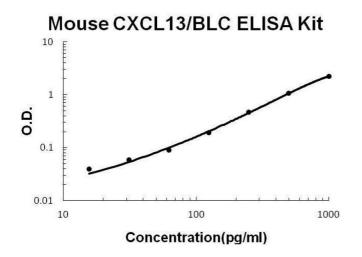
# Target Details

Target:	CXCL13
Alternative Name:	CXCL13 (CXCL13 Products)
Background:	Protein Function: Strongly chemotactic for B-lymphocytes, weakly for spleen monocytes and
	macrophages but no chemotactic activity for granulocytes. Binds to BLR1/CXCR5. May play a
	role in directing the migration of B-lymphocytes to follicles in secondary lymphoid organs.
	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,B lymphocyte chemoattractant,CXC chemokine
	BLC,Small-inducible cytokine B13,Cxcl13,Blc, Scyb13,
	Full Gene Name: C-X-C motif chemokine 13
	Cellular Localisation: Secreted.
Gene ID:	55985
UniProt:	055038
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:	Tissue Specificity: Found in spleen (B-cell-rich zone or follicles), Peyer patches (strongest withi
	germinal centers and extending to the mantle zone) and lymph nodes (in reticular pattern in
	follicles).

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Application Details	
Plate:	Pre-coated
Protocol:	mouse CXCL13 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CXCL13 has been precoated onto 96-well plates. Standards(E.coli, I22-A109) 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 was 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 mouse 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 mouse 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse CXCL13 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul> <li>Sample 1: n=16, Mean(pg/ml): 52.8, Standard deviation: 3.54, CV(%): 6.7</li> <li>Sample 2: n=16, Mean(pg/ml): 121, Standard deviation: 5.08, CV(%): 4.2</li> <li>Sample 3: n=16, Mean(pg/ml): 462, Standard deviation: 19.9, CV(%): 4.3,</li> <li>Sample 1: n=24, Mean(pg/ml): 54.1, Standard deviation: 4.44, CV(%): 8.2</li> <li>Sample 2: n=24, Mean(pg/ml): 116, Standard deviation: 8.47, CV(%): 7.3</li> <li>Sample 3: n=24, Mean(pg/ml): 446, Standard deviation: 36.1, CV(%): 8.1</li> </ul>
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

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### ELISA

Image 1. Mouse CXCL13/BLC PicoKine ELISA Kit standard

curve

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