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Datasheet for ABIN2859209 CCL21 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	CCL21
Binding Specificity:	AA 24-133
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 CCL21/6Ckine
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: S24-G133
Specificity:	E.coli, S24-G133
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

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Product Details

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

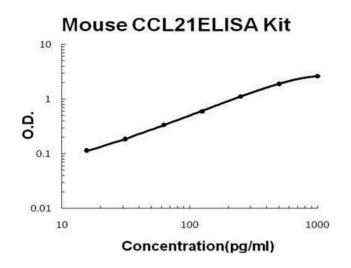
Target Details

Target:	CCL21
Alternative Name:	CCL21 (CCL21 Products)
Background:	Protein Function: Inhibits hemopoiesis and stimulates chemotaxis. Chemotactic in vitro for
	thymocytes and activated T-cells, but not for B-cells, macrophages, or neutrophils. Potent
	mesangial cell chemoattractant. Shows preferential activity towards naive T- cells. May play a
	role in mediating homing of lymphocytes to secondary lymphoid organs.
	Background: Chemokine (C-C motif) ligand 21 (CCL21) is a small cytokine belonging to the CC
	chemokine family. This chemokine is also known as 6Ckine (because it has six conserved
	cysteine residues instead of the four cysteines typical to chemokines), exodus-2, and secondar
	lymphoid-tissue chemokine (SLC). By somatic cell hybrid and radiation hybrid analyses,
	mapped the SCYA21 gene to 9p13. Chemokines are a family of proteins that direct leukocyte
	migration and activation to inflammatory stimuli. CXC chemokine ligand 13 (CXCL13), CC
	chemokine ligand 21 (CCL21), and CCL19 are constitutively expressed in secondary lymphoid
	organs, where they control the placement of lymphocytes and dendritic cells. It was
	demonstrate that the local expression of homeostatic chemokines in nonlymphoid organs,
	such as the lung, plays an important role in protective immune responses.
	Synonyms: C-C motif chemokine 21c,6Ckine,Beta-chemokine exodus-2,Small-inducible cytokine
	A21c,Thymus-derived chemotactic agent 4,TCA4,Ccl21c,Scya21c,
	Full Gene Name: C-C motif chemokine 21c
	Cellular Localisation: Secreted.
Gene ID:	18829, 100042493, 65956
UniProt:	P86793
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:	Tissue Specificity: Expressed strongly in lung, spleen, thymus, peripheral and mesentric lymph
	nodes. Also expressed in the testis, kidney, liver, and heart.
Plate:	Pre-coated
Protocol:	mouse CCL21 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from rat specific for CCL21 has been precoated onto
	96-well plates. Standards (E.coli, S24-G133) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for CCL21 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 mouse CCL21 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 CCL21 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 CCL21 standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 125, Standard deviation: 6.5, CV(%): 5.2
	Sample 2: n=16, Mean(pg/ml): 357, Standard deviation: 18.56, CV(%): 5.9
	 Sample 3: n=16, Mean(pg/ml): 556, Standard deviation: 31.13, CV(%): 5.6, Sample 1: n=24, Mean(ng/ml): 120, Standard deviation: 8.22, CV(%): 6.4.
	 Sample 1: n=24, Mean(pg/ml): 130, Standard deviation: 8.32, CV(%): 6.4 Sample 2: n=24, Mean(pg/ml): 349, Standard deviation: 23.03, CV(%): 6.6
	 Sample 3: n=24, Mean(pg/ml): 618, Standard deviation: 36.46, CV(%): 5.9
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

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ELISA

Image 1. Mouse CCL21/6Ckine PicoKine ELISA Kit standard curve

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