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Datasheet for ABIN3044693

CCL19 ELISA Kit





Overview

Quantity:	96 tests
Target:	CCL19
Binding Specificity:	AA 26-108
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 CCL19/MIP-3 beta
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Immunogen sequence: G26-S108
Specificity:	Expression system for standard: E.coli Immunogen sequence: G26-S108
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

Material not included:

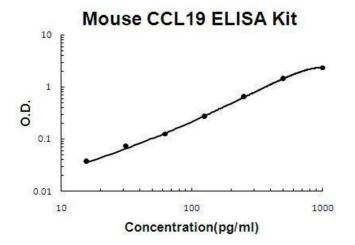
Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	CCL19
Alternative Name:	CCL19 (CCL19 Products)
Background:	Protein Function: Strongly chemotactic for naive (L-selectinhi) CD4 T- cells and for CD8 T-cells
	and weakly attractive for resting B- cells and memory (L-selectinlo) CD4 T-cells. May play a role
	in promoting encounters between recirculating T-cells and dendritic cells and in the migration
	of activated B-cells into the T-zone of secondary lymphoid tissues. Binds to chemokine receptor
	CCR7. Binds to atypical chemokine receptor ACKR4 and mediates the recruitment of beta- arrestin (ARRB1/2) to ACKR4.
	Background: Chemokine(C-C motif) ligand 19 (CCL19) is a small cytokine belonging to the CC
	chemokine family that is also known as EBI1 ligand chemokine (ELC) and macrophage
	inflammatory protein-3-beta (MIP-3-beta). Using PCR of human-rodent hybrids, the CCL19 gene
	was mapped to human chromosome 9p13, and the CCL19 gene is not part of the CC
	chemokine gene cluster on chromosome 17. The cytokine encoded by this gene may play a rol
	in normal lymphocyte recirculation and homing. It also plays an important role in trafficking of
	cells in thymus, and in T cell and B cell migration to secondary lymphoid organs.
	Synonyms: C-C motif chemokine 19,Epstein-Barr virus-induced molecule 1 ligand
	chemokine,EBI1 ligand chemokine,ELC,Small-inducible cytokine A19,Ccl19,Elc, Scya19,
	Full Gene Name: C-C motif chemokine 19
	Cellular Localisation: Secreted.
Gene ID:	24047
UniProt:	070460
Pathways:	Positive Regulation of Immune Effector Process
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: Highly expressed by dendritic cells in mesenteric and peripheral lymph

Application Details

nodes. Significant expression in spleen (T cell zone or periarteriolar lymphatic sheath) and Peyer patches. Low expression in thymus.
Peyer patches. Low expression in thymus.
Pre-coated
mouse CCL19 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
assay technology. A monoclonal antibody from rat specific for CCL19 has been precoated onto
96-well plates. Standards(Expression system for standard: E.coli, Immunogen sequence: G26-
S108) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL19 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
CCL19 amount of sample captured in plate.
Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL,
31.3pg/mL, 15.6pg/mL mouse CCL19 standard solutions into the pre-coated 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. We recommend that each
mouse CCL19 standard solution and each sample is measured in duplicate.
For Research Use only
heparin or EDTA
Avoid multiple freeze-thaw cycles.
4 °C,-20 °C
Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
12 months



ELISA

Image 1. Mouse CCL19 PicoKine ELISA Kit standard curve