

Datasheet for ABIN3044693
CCL19 ELISA Kit



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1 Image

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
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Target Details

Target:	CCL19
Alternative Name:	CCL19 (CCL19 Products)
Background:	<p>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.</p> <p>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 role in normal lymphocyte recirculation and homing. It also plays an important role in trafficking of T cells in thymus, and in T cell and B cell migration to secondary lymphoid organs.</p> <p>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,</p> <p>Full Gene Name: C-C motif chemokine 19</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	24047
UniProt:	O70460
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.

Plate: Pre-coated

Protocol: 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.

Assay Procedure: 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.

Restrictions: For Research Use only

Handling

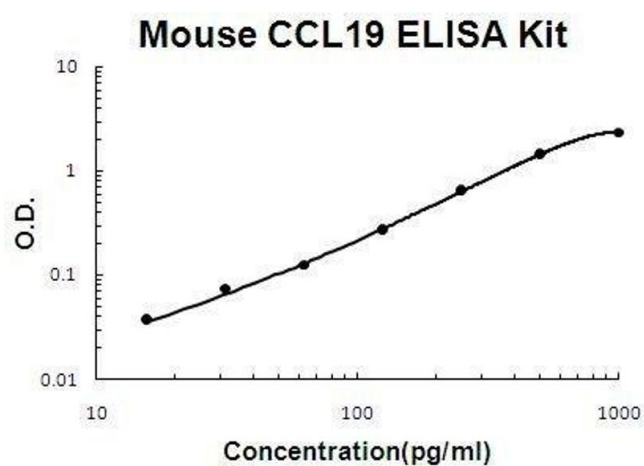
Buffer: heparin or EDTA

Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: 4 °C,-20 °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. Mouse CCL19 PicoKine ELISA Kit standard curve