

Datasheet for ABIN1889389 **CCL9 ELISA Kit**

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1 Image

Overview

Quantity:	96 tests
Target:	CCL9 (Ccl9)
Binding Specificity:	AA 22-122
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	7.8-500 pg/mL
Minimum Detection Limit:	7.8 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse CCL9
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: Q22-Q122
Specificity:	Expression system for standard: E.coli Immunogen sequence: Q22-Q122
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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:	CCL9 (Ccl9)
Alternative Name:	Ccl9 (Ccl9 Products)
Background:	<p>Protein Function: Monokine with inflammatory, pyrogenic and chemokinetic properties. Circulates at high concentrations in the blood of healthy animals. Binding to a high-affinity receptor activates calcium release in neutrophils. It also inhibits colony formation of bone marrow myeloid immature progenitors.</p> <p>Background: Chemokine(C-C motif) ligand 9(CCL9), also called MIP-1 gamma and MRP-2, is a small cytokine belonging to the CC chemokine family. CCL9 which found around Peyer's patches is secreted by follicle-associated epithelium(FAE), and it can attract dendritic cells that possess the cell surface molecule CD11b and the chemokine receptor CCR1. CCL9 is constitutively expressed in macrophages and myeloid cells. CCL9 can activate osteoclasts through its receptor CCR1(the most abundant chemokine receptor found on osteoclasts) suggesting an important role for CCL9 in bone resorption.</p> <p>Synonyms: C-C motif chemokine 9,CCF18,Macrophage inflammatory protein 1-gamma,MIP-1-gamma,Macrophage inflammatory protein-related protein 2,MRP-2,Small-inducible cytokine A9,CCL9(29-101),CCL9(30-101),CCL9(31-101),Ccl9,Mrp2, Scya10, Scya9,</p> <p>Full Gene Name: C-C motif chemokine 9</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	20308
UniProt:	P51670

Application Details

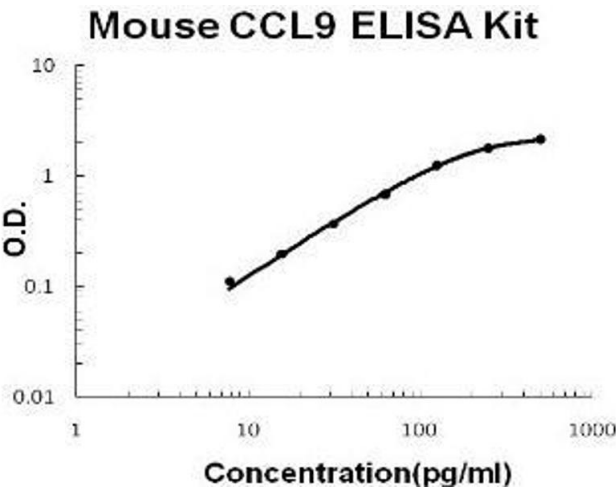
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Expressed mainly in the liver, lung, and the thymus, although some expression has been detected in a wide variety of tissues except brain.

Application Details

Plate:	Pre-coated
Protocol:	mouse CCL9 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CCL9 has been precoated onto 96-well plates. Standards(E.coli, Q22-Q122) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL9 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 CCL9 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.3pg/mL, 15.6pg/mL, 7.8pg/mL mouse CCL9 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. We recommend that each mouse CCL9 standard solution and each sample is measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 34, Standard deviation: 1.19, CV(%): 3.5• Sample 2: n=16, Mean(pg/ml): 78, Standard deviation: 3.67, CV(%): 4.7• Sample 3: n=16, Mean(pg/ml): 294, Standard deviation: 14.99, CV(%): 5.1,• Sample 1: n=24, Mean(pg/ml): 35, Standard deviation: 1.68, CV(%): 4.8• Sample 2: n=24, Mean(pg/ml): 82, Standard deviation: 4.59, CV(%): 5.6• Sample 3: n=24, Mean(pg/ml): 302, Standard deviation: 19.03, CV(%): 6.3
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



ELISA

Image 1. Mouse CCL9 PicoKine ELISA Kit standard curve