

Datasheet for ABIN1706079

## Ccl12 ELISA Kit



[Go to Product page](#)

1 Image

1 Publication

### Overview

Quantity:	96 tests
Target:	Ccl12
Binding Specificity:	AA 23-104
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse CCL12/MCP5
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: G23-G104
Specificity:	Expression system for standard: E.coli Immunogen sequence: G23-G104
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## 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:	Ccl12
Alternative Name:	Ccl12 ( <a href="#">Ccl12 Products</a> )
Background:	<p>Protein Function: Chemotactic factor that attracts eosinophils, monocytes, and lymphocytes but not neutrophils. Potent monocyte active chemokine that signals through CCR2. Involved in allergic inflammation and the host response to pathogens and may play a pivotal role during early stages of allergic lung inflammation.</p> <p>Background: Chemokine(C-C motif) ligand 12(CCL12) is a small cytokine belonging to the CC chemokine family that has been described in mice. It is also known as monocyte chemotactic protein 5(MCP-5) and, due to its similarity with the human chemokine MCP-1, sometimes it is called MCP-1-related chemokine. CCL12 specifically attracts eosinophils, monocytes and lymphocytes. This chemokine is found predominately in lymph nodes and thymus under normal conditions, and its expression can be hugely induced in macrophages. It is thought to coordinate cell movements during early allergic reactions, and immune response to pathogens. The gene for CCL12 is found in a cluster of CC chemokines on mouse chromosome 11.</p> <p>Synonyms: C-C motif chemokine 12,MCP-1-related chemokine,Monocyte chemoattractant protein 5,Monocyte chemotactic protein 5,MCP-5,Small-inducible cytokine A12,Ccl12,Mcp5, Scya12,</p> <p>Full Gene Name: C-C motif chemokine 12</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	20293
UniProt:	<a href="#">Q62401</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a>

## 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: Predominantly expressed in the lymph nodes and thymus. Also found in the salivary glands containing lymph nodes, breast, heart, lung, brain, small intestine, kidney and colon.
Plate:	Pre-coated
Protocol:	mouse CCL12 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CCL12 has been precoated onto 96-well plates. Standards(E.coli, G23-G104) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL12 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 CCL12 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL mouse CCL12 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 CCL12 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none"><li>• Sample 1: n=16, Mean(pg/ml): 113, Standard deviation: 4.86, CV(%): 4.3</li><li>• Sample 2: n=16, Mean(pg/ml): 468, Standard deviation: 22.00, CV(%): 4.7</li><li>• Sample 3: n=16, Mean(pg/ml): 1221, Standard deviation: 69.60, CV(%): 5.7,</li><li>• Sample 1: n=24, Mean(pg/ml): 126, Standard deviation: 10.46, CV(%): 8.3</li><li>• Sample 2: n=24, Mean(pg/ml): 471, Standard deviation: 41.92, CV(%): 8.9</li><li>• Sample 3: n=24, Mean(pg/ml): 1288, Standard deviation: 117.21, CV(%): 9.1</li></ul>
Restrictions:	For Research Use only

## Handling

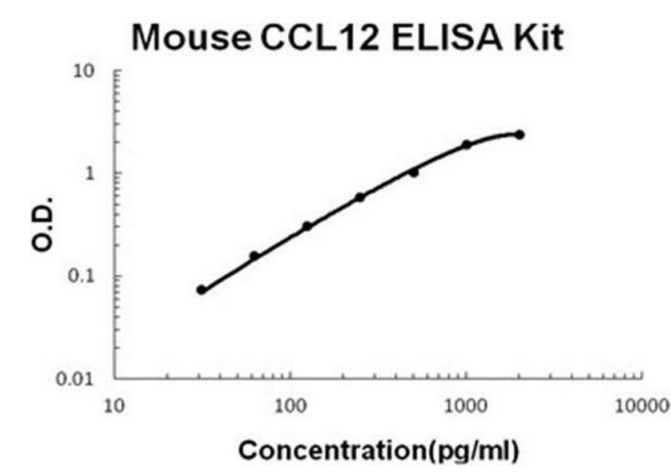
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Publications

Product cited in: Algul, Ozdenk, Ozcelik: "Variations in leptin, nesfatin-1 and irisin levels induced by aerobic exercise in young trained and untrained male subjects." in: **Biology of sport**, Vol. 34, Issue 4, pp. 339-344, (2018) ([PubMed](#)).

Çatl?, An?k, Küme, Çalan, Dünder, Böber, Abac?: "Serum nesfatin-1 and leptin levels in non-obese girls with premature thelarche." in: **Journal of endocrinological investigation**, Vol. 38, Issue 8, pp. 909-13, (2015) ([PubMed](#)).

Images



**ELISA**

**Image 1.** Mouse CCL12/MCP5 PicoKine ELISA Kit standard curve