

Datasheet for ABIN1706076

CCL6 ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	96 tests
Target:	CCL6
Binding Specificity:	AA 22-116
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 CCL6/C10
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: G22-A116
Specificity:	Expression system for standard: E.coli Immunogen sequence: G22-A116
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:	CCL6
Alternative Name:	Ccl6 (CCL6 Products)
Background:	<p>Protein Function: CCL6(22-95) and CCL6(23-95) are potent chemoattractants. .</p> <p>Background: Chemokine(C-C motif) ligand 6(CCL6) is a small cytokine belonging to the CC chemokine family that has only been identified in rodents. In mice, CCL6 is expressed in cells from neutrophil and macrophage lineages, and can be greatly induced under conditions suitable for myeloid cell differentiation. It is highly expressed in bone marrow cultures that have been stimulated with the cytokine GM-CSF. Some low levels of gene expression also occur in certain cell lines of myeloid origin(e.g. the immature myeloid cell lines DA3 and 32D cl3, and the macrophage cell line P388D) that can also be greatly induced in culture with GM-CSF. However, in activated T cell lines, expression of CCL6 is greatly reduced. CCL6 can also be induced in the mouse lung by the cytokine interleukin 13. Mouse CCL6 is located on chromosome 11. The cell surface receptor for CCL6 is believed to be the chemokine receptor CCR1.</p> <p>Synonyms: C-C motif chemokine 6,Protein C10,Small-inducible cytokine A6,CCL6(22-95),CCL6(23-95),Ccl6,C10, Scya6,</p> <p>Full Gene Name: C-C motif chemokine 6</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	20305
UniProt:	P27784

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 in myelopoietic bone marrow cultures stimulated by GM-CSF.
Plate:	Pre-coated

Application Details

Protocol: mouse CCL6 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CCL6 has been precoated onto 96-well plates. Standards(E.coli, G22-A116) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL6 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 CCL6 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 CCL6 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 CCL6 standard solution and each sample is measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 43, Standard deviation: 2.4, CV(%): 5.6
- Sample 2: n=16, Mean(pg/ml): 159, Standard deviation: 7.5, CV(%): 4.7
- Sample 3: n=16, Mean(pg/ml): 630, Standard deviation: 21.4, CV(%): 3.4,
- Sample 1: n=24, Mean(pg/ml): 44, Standard deviation: 3.6, CV(%): 8.2
- Sample 2: n=24, Mean(pg/ml): 166, Standard deviation: 12.3, CV(%): 7.4
- Sample 3: n=24, Mean(pg/ml): 621, Standard deviation: 44.1, CV(%): 7.1

Restrictions: For Research Use only

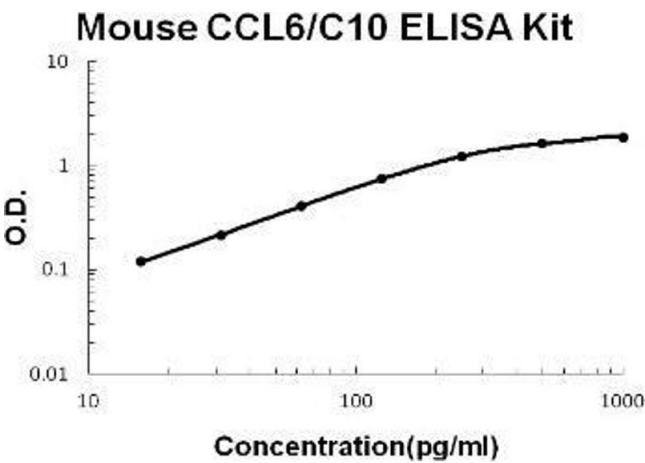
Handling

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 CCL6/C10 PicoKine ELISA Kit standard curve