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# **CCL8 ELISA Kit**





#### Overview

Quantity:	96 tests
Target:	CCL8
Binding Specificity:	AA 20-97
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 CCL8/MCP2
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: E20-P97
Specificity:	Expression system for standard: E.coli
	Immunogen sequence: E20-P97
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

# **Product Details**

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:	CCL8
Alternative Name:	CCL8 (CCL8 Products)
Background:	Protein Function: Chemotactic factor that attracts monocytes. This protein can bind heparin (By similarity)  Background: Chemokine(C-C motif) ligand 8, also known as monocyte chemoattractant protein 2(MCP-2), is a protein that in humans is encoded by the CCL8 gene. CCL8 is a small cytokine belonging to the CC chemokine family. The CCL8 protein is produced as a precursor containing 109 amino acids, which is cleaved to produce mature CCL8 containing 75 amino acids. The gene for CCL8 is encoded by 3 exons and is located within a large cluster of CC chemokines on chromosome 17q11.2 in humans. Monocyte chemotactic protein 2(MCP-2) is a CC chemokine that utilizes multiple cellular receptors to attract and activate human leukocytes.  Synonyms: C-C motif chemokine 8,Monocyte chemoattractant protein 2,Monocyte chemotactic protein 2,MCP-2,Small-inducible cytokine A8,Ccl8,Mcp2, Scya8,  Full Gene Name: C-C motif chemokine 8  Cellular Localisation: Secreted.
Gene ID:	20307
UniProt:	Q9Z121
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.
Plate:	Pre-coated
Protocol:	mouse CCL8 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CCL8 has been precoated onto 96-well plates. Standards(E.coli, E20-P97) and test samples are added to the wells, a biotinylated

#### **Application Details**

detection polyclonal antibody from goat specific for CCL8 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 CCL8 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 CCL8 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 CCL8 standard solution and each sample is measured in duplicate.

#### Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 32, Standard deviation: 1.31, CV(%): 4.1
- Sample 2: n=16, Mean(pg/ml): 125, Standard deviation: 5.88, CV(%): 4.7
- Sample 3: n=16, Mean(pg/ml): 524, Standard deviation: 27.25, CV(%): 5.2,
- Sample 1: n=24, Mean(pg/ml): 33, Standard deviation: 1.68, CV(%): 5.1
- Sample 2: n=24, Mean(pg/ml): 129, Standard deviation: 8.39, CV(%): 6.5
- Sample 3: n=24, Mean(pg/ml): 531, Standard deviation: 35.58, CV(%): 6.7

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

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# **ELISA**

**Image 1.** Mouse CCL8/MCP2 PicoKine ELISA Kit standard curve