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Datasheet for ABIN1889311

CCL28 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	CCL28
Binding Specificity:	AA 23-130
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 CCL28
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: I23-R130
Specificity:	Expression system for standard: E.coli Immunogen sequence: I23-R130
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: CCL28

Alternative Name: CCL28 ([CCL28 Products](#))

Background: Protein Function: Chemotactic for resting CD4, CD8 T-cells and eosinophils (By similarity). Binds to CCR10 and induces calcium mobilization in a dose-dependent manner. .

Background: CCL28, also known as mucosae-associated epithelial chemokine(MEC), CCK1 and SCYA28, is a chemokine. It is mapped to 5p12. The tumor hypoxia promotes the recruitment of regulatory T(Treg) cells through induction of expression of the chemokine CCL28, which in turn promotes tumor tolerance and angiogenesis. CCL28 regulates the chemotaxis of cells that express the chemokine receptors CCR3 and CCR10. CCL28 has also been implicated in the migration of IgA-expressing cells to the mammary gland, salivary gland, intestine and other mucosal tissues. It has also been shown as a potential antimicrobial agent effective against certain pathogens, such as Gram negative and Gram positive bacteria and the fungus *Candida albicans*.

Synonyms: C-C motif chemokine 28,Small-inducible cytokine A28,Ccl28,Scya28,

Full Gene Name: C-C motif chemokine 28

Cellular Localisation: Secreted.

Gene ID: 56838

UniProt: [Q9JIL2](#)

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: Mainly expressed in testis, epithelial cells of normal colon, kidney, Peyer patches, lymph nodes. Also found in lower levels in brain, spleen and lung.

Plate: Pre-coated

Application Details

Protocol: mouse CCL28 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CCL28 has been precoated onto 96-well plates. Standards(E.coli, I23-R130) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CCL28 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 CCL28 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 CCL28 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 CCL28 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 68, Standard deviation: 4.89, CV(%): 7.2
- Sample 2: n=16, Mean(pg/ml): 272, Standard deviation: 17.14, CV(%): 6.3
- Sample 3: n=16, Mean(pg/ml): 1013, Standard deviation: 38.49, CV(%): 3.8,
- Sample 1: n=24, Mean(pg/ml): 71, Standard deviation: 6.32, CV(%): 8.9
- Sample 2: n=24, Mean(pg/ml): 283, Standard deviation: 21.51, CV(%): 7.6
- Sample 3: n=24, Mean(pg/ml): 1154, Standard deviation: 83.09, CV(%): 7.2

Restrictions: For Research Use only

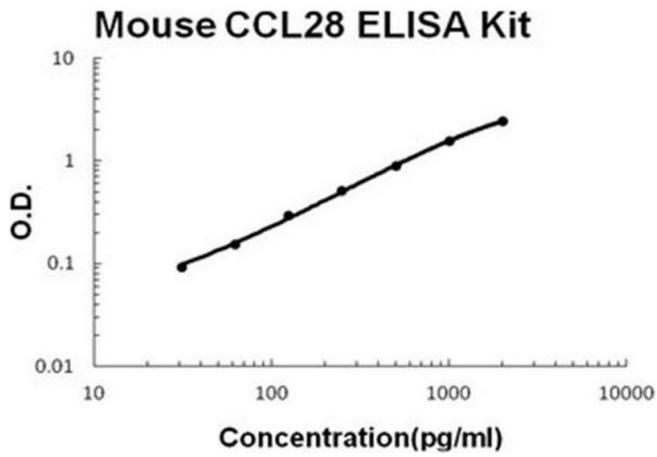
Handling

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 CCL28 PicoKine ELISA Kit standard curve