

Datasheet for ABIN2859288

CXCL9 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	CXCL9
Binding Specificity:	AA 22-126
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 CXCL9
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: T22-T126
Specificity:	E.coli, T22-T126
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

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
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Target Details

Target:	CXCL9
Alternative Name:	CXCL9 (CXCL9 Products)
Background:	<p>Protein Function: May be a cytokine that affects the growth, movement, or activation state of cells that participate in immune and inflammatory response.</p> <p>Background: Chemokine (C-X-C motif) ligand 9 (CXCL9) is a small cytokine belonging to the CXC chemokine family that is also known as Monokine induced by gamma interferon (MIG). CXCL9 is a T-cell chemoattractant, which is induced by IFN-γ. It is closely related to two other CXC chemokines called CXCL10 and CXCL11, whose genes are located near the gene for CXCL9 on human chromosome 4. CXCL9, CXCL10 and CXCL11 all elicit their chemotactic functions by interacting with the chemokine receptor CXCR3. The standard product used in this kit is recombinant human CXCL9, consisting of 103 amino acids with the molecular mass of 11.7KDa.</p> <p>Synonyms: C-X-C motif chemokine 9, Gamma-interferon-induced monokine, Monokine induced by interferon-gamma, MIG, MuMIG, Protein m119, Small-inducible cytokine B9, Cxcl9, Mig, Scyb9,</p> <p>Full Gene Name: C-X-C motif chemokine 9</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	17329
UniProt:	P18340

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 CXCL9 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CXCL9 has been precoated onto 96-well plates. Standards (E.coli, T22-T126) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CXCL9 is added subsequently

Application Details

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 CXCL9 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 CXCL9 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(EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse CXCL9 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 113, Standard deviation: 4.86, CV(%): 4.3
- Sample 2: n=16, Mean(pg/ml): 468, Standard deviation: 22.00, CV(%): 4.7
- Sample 3: n=16, Mean(pg/ml): 1221, Standard deviation: 69.60, CV(%): 5.7,
- Sample 1: n=24, Mean(pg/ml): 126, Standard deviation: 10.46, CV(%): 8.3
- Sample 2: n=24, Mean(pg/ml): 471, Standard deviation: 41.92, CV(%): 8.9
- Sample 3: n=24, Mean(pg/ml): 1288, Standard deviation: 117.21, CV(%): 9.1

Restrictions: For Research Use only

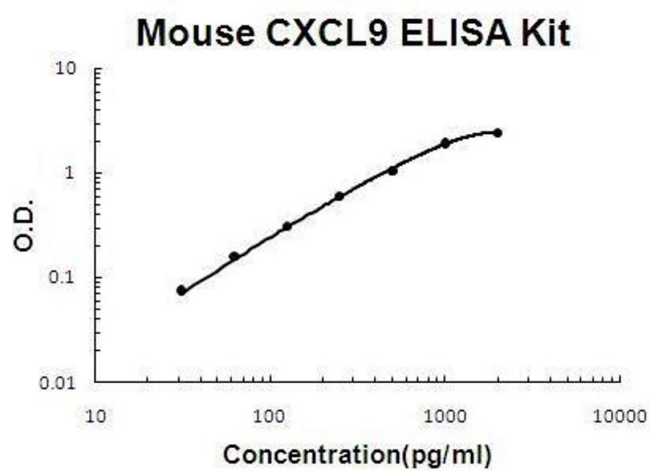
Handling

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 CXCL9 PicoKine ELISA Kit standard curve