

Datasheet for ABIN1889427  
**CXCL14 ELISA Kit**



[Go to Product page](#)

1 Image

## Overview

Quantity:	96 tests
Target:	CXCL14
Binding Specificity:	AA 35-111
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CXCL14
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: S35-E111
Specificity:	Expression system for standard: E.coli Immunogen sequence: S35-E111
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

Predicted Reactivity:	Bovine,Hamster,Horse,Monkey
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:	CXCL14
Alternative Name:	CXCL14 ( <a href="#">CXCL14 Products</a> )
Background:	<p>Protein Function: Potent chemoattractant for neutrophils, and weaker for dendritic cells. Not chemotactic for T-cells, B-cells, monocytes, natural killer cells or granulocytes. Does not inhibit proliferation of myeloid progenitors in colony formation assays. .</p> <p>Background: Chemokine(C-X-C motif) ligand 14(CXCL14) is a small cytokine belonging to the CXC chemokine family that is also known as BRAK(for breast and kidney-expressed chemokine). This gene is mapped to 5q31.1. CXCL14 is constitutively expressed at high levels in many normal tissues, it has been found that fibroblasts are the primary source of CXCL14 and that CXCL14 is involved in the homeostasis of monocyte-derived macrophages rather than in inflammation. It is also a potent chemoattractant and activator of dendritic cells, is implicated in homing of these cells, and can stimulate the migration of activated NK cells. CXCL14 also inhibits angiogenesis, possibly as a result of its ability to block endothelial cell chemotaxis. In addition to it, CXCL14 is a potent chemokine for immature DCs, with a chemoattractive activity comparable to bacterial fMLP and MIP1A.</p> <p>Synonyms: C-X-C motif chemokine 14,Chemokine BRAK,MIP-2G,Small-inducible cytokine B14,CXCL14,MIP2G, NJAC, SCYB14,PSEC0212, UNQ240/PRO273,</p> <p>Full Gene Name: C-X-C motif chemokine 14</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	9547
UniProt:	<a href="#">O95715</a>
Pathways:	<a href="#">Autophagy</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.
Comment:	<p>Sequence similarities: Belongs to the intercrine alpha (chemokine CxC) family.</p> <p>Tissue Specificity: Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Highly expressed in normal tissue without inflammatory stimuli and infrequently expressed in cancer cell lines. Weakly expressed in monocyte- derived dendritic cells. Not detected in lung or unstimulated peripheral blood lymphocytes. .</p>
Plate:	Pre-coated
Protocol:	human CXCL14 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CXCL14 has been precoated onto 96-well plates. Standards(E.coli, S35-E111) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CXCL14 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 human CXCL14 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human CXCL14 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 human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human CXCL14 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): 987, Standard deviation: 35.5, CV(%): 3.6</li><li>• Sample 2: n=16, Mean(pg/ml): 1638, Standard deviation: 68.8, CV(%): 4.2</li><li>• Sample 3: n=16, Mean(pg/ml): 3285, Standard deviation: 187.2, CV(%): 5.7,</li><li>• Sample 1: n=24, Mean(pg/ml): 1387, Standard deviation: 56.87, CV(%): 4.1</li><li>• Sample 2: n=24, Mean(pg/ml): 2694, Standard deviation: 156, CV(%): 5.8</li><li>• Sample 3: n=24, Mean(pg/ml): 3525, Standard deviation: 225.6, CV(%): 6.4</li></ul>
------------------	---

Restrictions:	For Research Use only
---------------	-----------------------

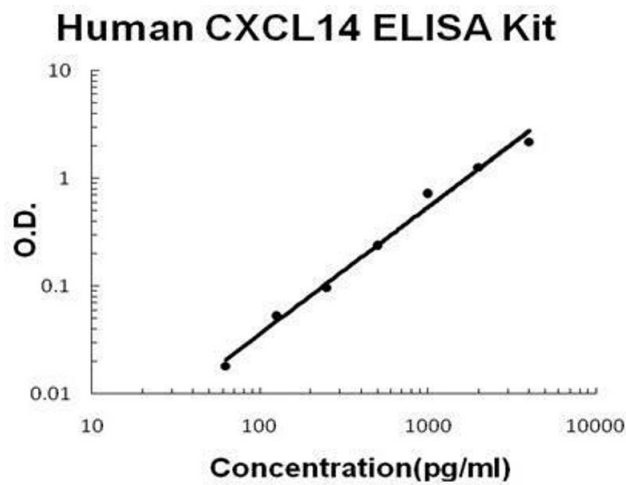
## Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
------------------	------------------------------------

Handling

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

Images



ELISA

**Image 1.** Human CXCL14 PicoKine ELISA Kit standard curve