

Datasheet for ABIN1672728

**CXCL6 ELISA Kit**[Go to Product page](#)**1** Image

## Overview

Quantity:	96 tests
Target:	CXCL6
Binding Specificity:	AA 40-114
Reactivity:	Human
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 Human CXCL6/GCP2
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: V40-N114
Specificity:	Expression system for standard: E.coli Immunogen sequence: V40-N114
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:	CXCL6
Alternative Name:	CXCL6 ( <a href="#">CXCL6 Products</a> )
Background:	<p>Protein Function: Chemotactic for neutrophil granulocytes. Signals through binding and activation of its receptors (CXCR1 and CXCR2). In addition to its chemotactic and angiogenic properties, it has strong antibacterial activity against Gram-positive and Gram-negative bacteria (90-fold-higher when compared to CXCL5 and CXCL7). .</p> <p>Background: Chemokine(C-X-C motif) ligand 6(CXCL6) is a small cytokine belonging to the CXC chemokine family that is also known as granulocyte chemotactic protein 2(GCP-2). As its former name suggests, CXCL6 is a chemoattractant for neutrophilic granulocytes. It elicits its chemotactic effects by interacting with the chemokine receptors CXCR1 and CXCR2. The gene for CXCL6 is located on human chromosome 4 in a cluster with other CXC chemokine genes.</p> <p>Synonyms: C-X-C motif chemokine 6,Chemokine alpha 3,CKA-3,Granulocyte chemotactic protein 2,GCP-2,Small-inducible cytokine B6,Small-inducible cytokine B6, N-processed variant 1,Small-inducible cytokine B6, N-processed variant 2,Small-inducible cytokine B6, N-processed variant 3,CXCL6,GCP2, SCYB6,</p> <p>Full Gene Name: C-X-C motif chemokine 6</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	6372
UniProt:	<a href="#">P80162</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:	Sequence similarities: Belongs to the intercrine alpha (chemokine Cx) family.
Plate:	Pre-coated

## Application Details

**Protocol:** human CXCL6 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CXCL6 has been precoated onto 96-well plates. Standards(E.coli, V40-N114) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CXCL6 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 CXCL6 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 human CXCL6 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 CXCL6 standard solution and each sample be measured in duplicate.

**Assay Precision:**

- Sample 1: n=16, Mean(pg/ml): 223, Standard deviation: 13.6, CV(%): 6.1
- Sample 2: n=16, Mean(pg/ml): 519, Standard deviation: 33.2, CV(%): 6.4
- Sample 3: n=16, Mean(pg/ml): 1089, Standard deviation: 64.3, CV(%): 5.9,
- Sample 1: n=24, Mean(pg/ml): 245, Standard deviation: 18.1, CV(%): 7.4
- Sample 2: n=24, Mean(pg/ml): 542, Standard deviation: 41.2, CV(%): 7.6
- Sample 3: n=24, Mean(pg/ml): 1054, Standard deviation: 71.7, CV(%): 6.8

**Restrictions:** For Research Use only

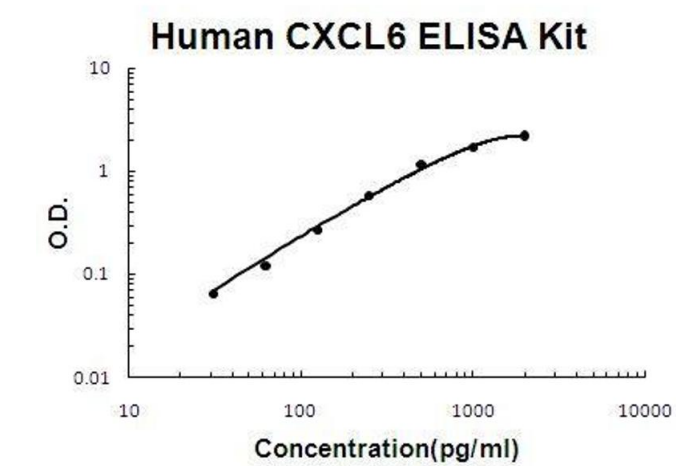
## Handling

**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.** Human CXCL6/GCP2 PicoKine ELISA Kit standard curve