



## Datasheet for ABIN6720347 CX3CL1 ELISA Kit



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### 1 Image

#### Overview

Quantity:	1 kit
Target:	CX3CL1
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	312 pg/mL - 20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

#### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: A 152E5.2, AB030188, ABCD 3, ABCD3, C X3 C motif chemokine 1, C3Xkine, Chemokine (C X3 C motif) ligand 1, Chemokine C X3 C motif ligand 1, Chemokine CX3C Motif Ligand 1, CX3C membrane anchored chemokine, CXC3, CXC3C, FKN, Fractalkine, Neurotactin, NTN, NTT, SCYD 1, SCYD1, Small inducible cytokine D1, Small inducible cytokine subfamily D (Cys X3 Cys), member 1, Small inducible cytokine subfamily D (Cys-X3-Cys), member 1 (fractalkine, neurotactin), Small inducible cytokine subfamily D member 1</p> <p>Background: Chemokine(C-X3-C motif) ligand 1(CX3CL1) is a large cytokine protein of 373 amino acids, it contains multiple domains and is the only known member of the CX3C</p>

## Product Details

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chemokine family. It is also commonly known under the names fractalkine(in humans) and neurotactin(in mice). CX3CL1 is produced as a long protein(with 373-amino acid in humans) with an extended mucin-like stalk and a chemokine domain on top. The mucin-like stalk permits it to bind to the surface of certain cells. However a soluble(90 kD) version of this chemokine has also been observed. Soluble CX3CL1 potently chemoattracts T cells and monocytes, while the cell-bound chemokine promotes strong adhesion of leukocytes to activated endothelial cells, where it is primarily expressed. CX3CL1 elicits its adhesive and migratory functions by interacting with the chemokine receptor CX3CR1. Its gene is located on human chromosome 16 along with some CC chemokines known as CCL17 and CCL22. It can act as a mediator of smooth muscle cell migration in human atherosclerosis, rather than mediate inflammatory cell recruitment.

Gene Name: CX3CL1

Production: Natural and recombinant rat Fractalkine. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: sf21, Immunogen sequence: Q25-T334

## Target Details

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Target: CX3CL1

Alternative Name: Fractalkine ([CX3CL1 Products](#))

Gene ID: 89808

NCBI Accession: [NP\\_604450](#)

UniProt: [O55145](#)

Pathways: [Synaptic Membrane](#)

## Application Details

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Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 20000pg/mL, 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL rat Fractalkine 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 rat cell culture supernates, serum, plasma(heparin, EDTA) or tissue homogenates to each empty well. It is recommended that each rat Fractalkine standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

## Application Details

ELISA Dilution: 312pg/mL-20000pg/mL

Sample Volume: 100  $\mu$ L

Plate: Pre-coated

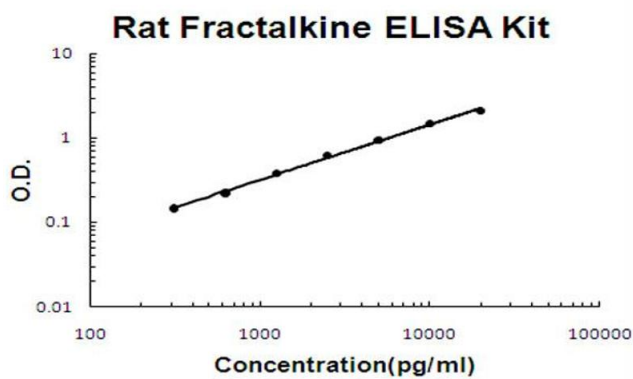
Restrictions: For Research Use only

## Handling

Storage: RT,4 °C,-20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

## Images



### ELISA

**Image 1.** Rat Fractalkine Accusignal ELISA Kit Rat Fractalkine AccuSignal ELISA Kit standard curve. Assay Range: 312pg/ml-20000pg/ml. Sensitivity: <10pg/ml.