

Datasheet for KOA0176**Rat Fractalkine ELISA Kit****Overview**

Description:	Rat Fractalkine AccuSignal ELISA Kit - KOA0176
Item No.:	KOA0176
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	312 pg/ml - 20000 pg/ml

Product Details

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 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.
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
Detection Kit Type:	ELISA Kit
Detection Range:	312 pg/ml - 20000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	CX3CL1
Reactivity:	Rat
Immunogen:	Expression system for standard: sf21; Immunogen sequence: Q25-T334
Purity/Specificity:	Natural and recombinant rat Fractalkine. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - O55145 • NCBI - NP_604450.1 • GeneID - 89808 • KOA0176 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

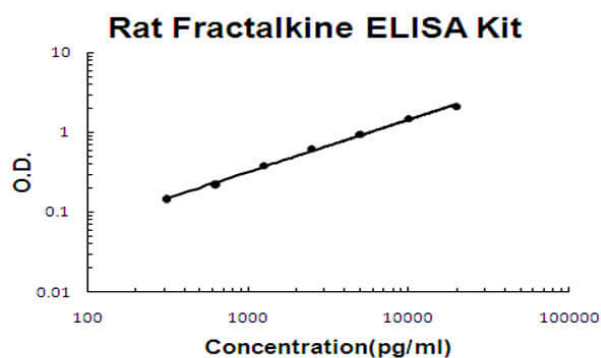
Anticoagulant:	Heparin Sodium
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Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition:	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.
Expiration:	See kit insert for complete instructions.

Images



ELISA

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

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.