

Rat Fractalkine ELISA Kit | CX3CL1 elisa kit

Rat Fractalkine PicoKine ELISA Kit

CATALOG #
AAA45981

REACTIVITY
Rat

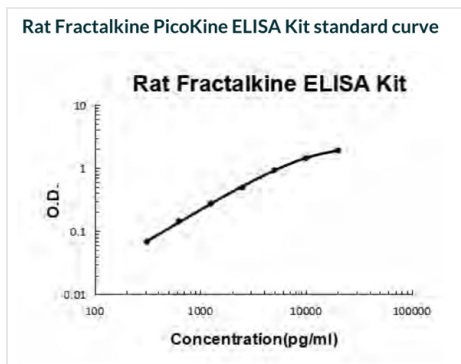
PRODUCT SYNONYMS

Fractalkine; Rat Fractalkine PicoKine ELISA Kit; chemokine (C-X3-C motif) ligand 1; 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; Neurotactin; NTN; NTT; SCYD 1; SCYD1; CX3XL1; 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; CX3CL1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Cx3cl1
Sequence Length	393
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CX3CL1 elisa kit	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. Principle of the Assay: The Picokine™ Rat Cx3cl1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Rat Cx3cl1 with a 96-well strip plate that is pre-coated with antibody specific for Cx3cl1. The detection antibody is a biotinylated antibody specific for Cx3cl1. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Rat Cx3cl1 with immunogen: Expression system for standard: NS0; Immunogen sequence: Q25-T334. The kit is analytically validated with ready-to-use reagents. To measure Rat Cx3cl1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Rat Cx3cl1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat Cx3cl1 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	18266784
NCBI GeneID	89808
UniProt Accession #	O55145
Molecular Weight	41,977 Da
NCBI Official Full Name	Fractalkine
NCBI Official Synonym Full Names	chemokine (C-X3-C motif) ligand 1
NCBI Official Symbol	Cx3cl1
NCBI Official Synonym Symbols	Cx3c; Scyd1
NCBI Protein Information	fractalkine; neurotactin; C-X3-C motif chemokine 1; small-inducible cytokine D1; CX3C membrane-anchored chemokine; small inducible cytokine subfamily D, 1
UniProt Protein Name	Fractalkine
UniProt Gene Name	Cx3cl1
UniProt Synonym Gene Names	Acc1; Fkn; Scyd1
UniProt Entry Name	X3CL1_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.