

CX3CL1

Catalog # PVGS1390

Specification

CX3CL1 - Product Information

Primary Accession Species Rat

Sequence

QHLGMTKCNI TCHKMTSPIP VTLLIHYQLN QESCGKRAII LETRQHRHFC ADPKEKWVQD AMKHLDHQTA ALTRNGGKFE KRVDNVTPRI TSATRGLSPT ALAKPESATV EDLTLEPTAI SQEARRPMGT SQEPPAAVTG SSPSTSKAQD AGLAAKPQST GISEVAAVST TIWPSSAVYQ SGSSLWAEEK ATESPPTIAL STQASTTSSP KQNVGSEGQP PWVQEQDSTP EKSPGPEETN PVHTDIFQDR GPGSTVHPSV APTSSEKTPS PELVASGSQA PKVEEPIHAT ADPQKLSVFI TPVPDSQAAT

055145

Purity

> 98% as analyzed by SDS-PAGE.

Endotoxin Level < 0.2 EU/ μg, determined by LAL method.

Formulation

Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH₂0 or PBS at 100 µg/ml.

CX3CL1 - Additional Information

Gene ID 89808

Other Names Fractalkine, C-X3-C motif chemokine 1, CX3C membrane-anchored chemokine, Neurotactin, Small-inducible cytokine D1, Processed fractalkine, Cx3cl1, Acc1, Fkn, Scyd1

Target Background



rrFractalkine/CX3CL1 has a molecular mass of 70-90 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at .

CX3CL1 - Protein Information

Name Cx3cl1

Synonyms Acc1, Fkn, Scyd1

Function

Chemokine that acts as a ligand for both CX3CR1 and integrins ITGAV:ITGB3 and ITGA4:ITGB1. The CX3CR1-CX3CL1 signaling exerts distinct functions in different tissue compartments, such as immune response, inflammation, cell adhesion and chemotaxis. Regulates leukocyte adhesion and migration processes at the endothelium. Can activate integrins in both a CX3CR1-dependent and CX3CR1-independent manner. In the presence of CX3CR1, activates integrins by binding to the classical ligand-binding site (site 1) in integrins. In the absence of CX3CR1, binds to a second site (site 2) in integrins which is distinct from site 1 and enhances the binding of other integrin ligands to site 1.

Cellular Location Cell membrane {ECO:0000250|UniProtKB:P78423}; Single-pass type I membrane protein

Tissue Location Highest levels in brain (neurons). Significant levels in kidney, heart, lung and adrenal gland

CX3CL1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

CX3CL1 - Images