

**Anti-Fractalkine/CX3CL1 Antibody**  
**Catalog # ABO10723****Specification**

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**Anti-Fractalkine/CX3CL1 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P78423</a> |
| Host              | Rabbit                 |
| Reactivity        | Human                  |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for Fractalkine(CX3CL1) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Fractalkine/CX3CL1 Antibody - Additional Information**

**Gene ID** 6376

**Other Names**

Fractalkine, C-X3-C motif chemokine 1, CX3C membrane-anchored chemokine, Neurotactin, Small-inducible cytokine D1, Processed fractalkine, CX3CL1, FKN, NTT, SCYD1

**Calculated MW**

42203 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Cell membrane; Single-pass type I membrane protein.

**Tissue Specificity**

Small intestine, colon, testis, prostate, heart, brain, lung, skeletal muscle, kidney and pancreas.

**Protein Name**

Fractalkine

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human CX3CL1(50-64aa HYQQNQASCGKRAII).

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the intercrine delta family.

**Anti-Fractalkine/CX3CL1 Antibody - Protein Information**

**Name** CX3CL1 {ECO:0000303|PubMed:9024663}

**Function**

Chemokine that acts as a ligand for both CX3CR1 and integrins ITGA5:ITGB3 and ITGA4:ITGB1 (PubMed: <a href="http://www.uniprot.org/citations/12055230" target="\_blank">12055230</a>, PubMed: <a href="http://www.uniprot.org/citations/21829356" target="\_blank">21829356</a>, PubMed: <a href="http://www.uniprot.org/citations/23125415" target="\_blank">23125415</a>, PubMed: <a href="http://www.uniprot.org/citations/9782118" target="\_blank">9782118</a>, PubMed: <a href="http://www.uniprot.org/citations/9931005" target="\_blank">9931005</a>). The CX3CR1-CX3CL1 signaling exerts distinct functions in different tissue compartments, such as immune response, inflammation, cell adhesion and chemotaxis (PubMed: <a href="http://www.uniprot.org/citations/12055230" target="\_blank">12055230</a>, PubMed: <a href="http://www.uniprot.org/citations/9024663" target="\_blank">9024663</a>, PubMed: <a href="http://www.uniprot.org/citations/9177350" target="\_blank">9177350</a>, PubMed: <a href="http://www.uniprot.org/citations/9782118" target="\_blank">9782118</a>). Regulates leukocyte adhesion and migration processes at the endothelium (PubMed: <a href="http://www.uniprot.org/citations/9024663" target="\_blank">9024663</a>, PubMed: <a href="http://www.uniprot.org/citations/9177350" target="\_blank">9177350</a>). Can activate integrins in both a CX3CR1-dependent and CX3CR1-independent manner (PubMed: <a href="http://www.uniprot.org/citations/23125415" target="\_blank">23125415</a>, PubMed: <a href="http://www.uniprot.org/citations/24789099" target="\_blank">24789099</a>). In the presence of CX3CR1, activates integrins by binding to the classical ligand-binding site (site 1) in integrins (PubMed: <a href="http://www.uniprot.org/citations/23125415" target="\_blank">23125415</a>, PubMed: <a href="http://www.uniprot.org/citations/24789099" target="\_blank">24789099</a>). 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 (PubMed: <a href="http://www.uniprot.org/citations/23125415" target="\_blank">23125415</a>, PubMed: <a href="http://www.uniprot.org/citations/24789099" target="\_blank">24789099</a>).

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Expressed in the seminal plasma, endometrial fluid and follicular fluid (at protein level). Small intestine, colon, testis, prostate, heart, brain, lung, skeletal muscle, kidney and pancreas. Most abundant in the brain and heart

**Anti-Fractalkine/CX3CL1 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-Fractalkine/CX3CL1 Antibody - Images



Anti-CX3CL1 antibody, ABO10723, Western blotting  
Lane 1: Recombinant Human Fractalkine Protein 10ng  
Lane 2: Recombinant Human Fractalkine Protein 5ng  
Lane 3: Recombinant Human Fractalkine Protein 2.5ng

#### Anti-Fractalkine/CX3CL1 Antibody - Background

Chemokine(C-X3-C motif) ligand 1, also known as CX3CL1, is a large cytokine protein. It is said to be the only known member of the CX3C chemokine family. It is also commonly known under the names fractalkine(in humans) and neurotactin(in mice). Its gene is mapped to the long arm of chromosome 8. Being the large protein, it has got 373 amino acids. Imai et al.(1997) identified a 7-transmembrane high-affinity receptor(CX3CR1; 601470) for fractalkine and showed that it mediates both the adhesive and migratory functions of fractalkine.