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Fractalkine Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10824

Specification

Fractalkine Antibody - Product Information

Application	**WB**
Primary Accession	P78423
Other Accession	BAD92274
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**42203**

Fractalkine Antibody - Additional Information

Gene ID 6376

Application & Usage	**Western blot analysis (0.5-4 µg/ml). Per researcher's feedback, it can also be used in immunoprecipitation (4-8 µg/ml), and Immunohistochemistry (10-20 µg/ml). However, the optimal conditions should be determined individually.**

Other Names
Fractalkine; C-X3-C motif chemokine 1; Neurotactin; CX3C membrane-anchored chemokine; Small-inducible cytokine D1

Target/Specificity
Fractalkine

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit anti-Fractalkine polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Fractalkine Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Fractalkine Antibody - Protein Information

Name CX3CL1 {ECO:0000303|PubMed:9024663}

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

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

Fractalkine Antibody - Protocols

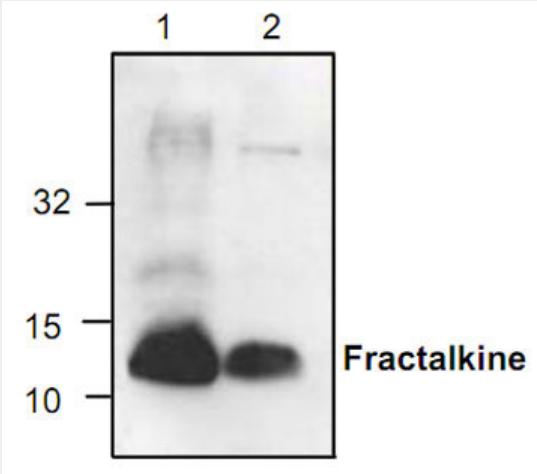
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Fractalkine Antibody - Images



Western blot analysis using recombinant human Fractalkine. Lane 1: 1 µg; Lane 2: 250 ng

Fractalkine Antibody - Background

Fractalkine, also known as neurotactin, is a membrane-bound CX3C Chemokine. The mature protein is part of a 397-amino acid precursor and consists of a chemokine domain of 76 amino acids, a mucin stalk of 241 amino acids, a putative transmembrane domain of 18 amino acids, and an intracellular tail of 37 amino acids. Within the chemokine domain, the first two cysteine residues are separated by 3 amino acids (CX3C). Fractalkine message is found in high abundance in the brain, kidney, lung and heart tissues. Fractalkine is chemotactic for monocytes and other leukocytes including NK cells and may play a role in brain inflammation.