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Anti-Human Fractalkine (RABBIT) Antibody Biotin Conjugated

Fractalkine Antibody Biotin Conjugated
Catalog # ASR4977

Specification

Anti-Human Fractalkine (RABBIT) Antibody Biotin Conjugated - Product Information

Host	**Rabbit**
Conjugate	**Biotin**
FP Value	**10-20**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
Application Note	**Fractalkine purified antibody has been tested in western blotting and suitable in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~42 kDa in size corresponding to the human Fractalkine protein by western blotting in appropriate cell lysate or extract.**
Physical State	**Lyophilized**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Anti-Fractalkine antibody was prepared from rabbit antiserum after repeated immunizations with a truncated form of recombinant human Fractalkine protein from E. coli.**
Reconstitution Volume	**100 µL**
Reconstitution Buffer	**Restore with deionized water (or equivalent)**
Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Human Fractalkine (RABBIT) Antibody Biotin Conjugated - Additional Information

Gene ID 6376

Other Names
6376

Purity
Anti-Fractalkine is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for human Fractalkine protein. A BLAST analysis was used to suggest cross-reactivity with Fractalkine from human sources based on 100% homology with the immunizing sequence. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin and anti-Rabbit

Serum. Cross-reactivity with Fractalkine from other sources has not been determined.

Storage Condition
Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Human Fractalkine (RABBIT) Antibody Biotin Conjugated - 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:12055230, PubMed:21829356, PubMed:23125415, PubMed:9782118, PubMed:9931005). The CX3CR1-CX3CL1 signaling exerts distinct functions in different tissue compartments, such as immune response, inflammation, cell adhesion and chemotaxis (PubMed:12055230, PubMed:9024663, PubMed:9177350, PubMed:9782118). 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

Anti-Human Fractalkine (RABBIT) Antibody Biotin Conjugated - Protocols

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

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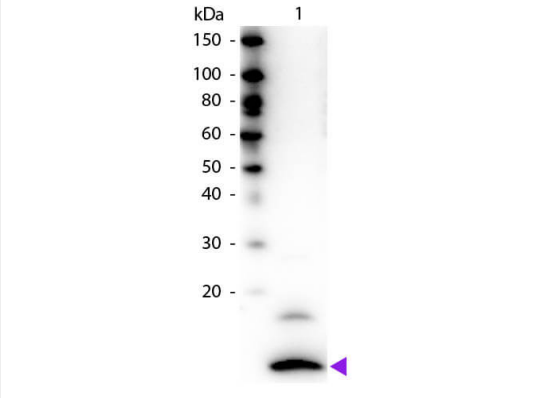
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Human Fractalkine (RABBIT) Antibody Biotin Conjugated - Images



Western blot of Biotin conjugated Rabbit Anti-Fractalkine primary antibody. Lane 1: Human Fractalkine. Lane 2: None. Load: 50 ng per lane. Primary antibody: Fractalkine Biotin conjugated antibody at 1:1,000 for 60 min at RT. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:40,000 for 30 min at RT. Blocking: MB-070 for 30 min at RT. Observed/Predicted size: 9 kDa, 9 kDa for Human Fractalkine. Other band(s): None.

Anti-Human Fractalkine (RABBIT) Antibody Biotin Conjugated - Background

Fractalkine (CX3CL1) is an atypical chemokine that was the first of a fourth chemokine motif (CX3C). It is thought to function as a T cell and monocyte chemotractant and is produced by non-haemopoietic cells. Fractalkine is made in a soluble and membrane bound form in activated endothelial cells which is thought to promote adhesion of leukocytes. The soluble form is chemotactic for T-cells and monocytes, but not for neutrophils, while the cell-bound chemokine promotes strong adhesion of leukocytes to activated endothelial cells, where it is primarily expressed. It is found predominantly in the small intestine, colon, testis, prostate, heart, brain, lung, skeletal muscle, kidney and pancreas. Fractalkine may play a role in regulating leukocyte adhesion and migration processes at the endothelium by binding to CX3CR1. Recombinant human Fractalkine is a non-glycosylated protein with a molecular weight of 8.6 kDa. Anti-Fractalkine antibody is ideal for researchers interested in cytokines and stem cell research.