

Datasheet for 209-406-H49**Fractalkine Antibody Biotin Conjugated****Overview**

Description:	Anti-Human Fractalkine (RABBIT) Antibody Biotin Conjugated - 209-406-H49
Item No.:	209-406-H49
Size:	100 µg
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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.
Synonyms:	rabbit anti-Fractalkine Biotin conjugated Antibody, CX3CL1, Fractalkine, Chemokine (C-X3-C motif) ligand 1, C-X3-C motif chemokine 1, CX3C membrane-anchored chemokine, Neurotactin, Small-inducible cytokine D1, FKN, NTT, SCYD1, A-152E5.2
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	10-20

Target Details

Gene Name:	CX3CL1
Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-Fractalkine antibody was prepared from rabbit antiserum after repeated immunizations with a truncated form of recombinant human Fractalkine protein from E. coli.
Purity/Specificity:	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.
Relevant Links:	• UniProtKB - P78423 • NCBI - NP_002987.1 • GeneID - 6376

Application Details

Tested Applications:	WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:50,000
WB:	1:1000-1:2000

Formulation

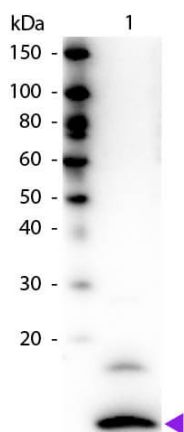
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 μ L
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.