10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Fractalkine/CX3CL1 Antibody

Catalog # ABO10723

Product Information

Application	WB
Primary Accession	P78423
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.

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
Application Details	Western blot, 0.1-0.5 □g/ml, Human
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.
Source	Eukaryota
Protein Name	Fractalkine
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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 r˚Constitution, 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.

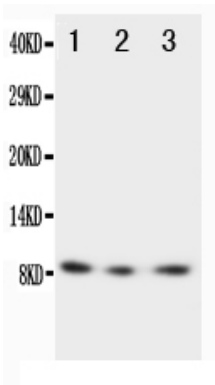
Protein Information

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

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.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.