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Anti-Fractalkine/CX3CL1 Antibody

Catalog # ABO10724

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	O35188
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Fractalkine(CX3CL1) detection. Tested with WB, IHC-P, IHC-F in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	20312
Other Names	Fractalkine, C-X3-C motif chemokine 1, CX3C membrane-anchored chemokine, Neurotactin, Small-inducible cytokine D1, Processed fractalkine, Cx3cl1, Cx3c, Fkn, Scyd1
Calculated MW	42099
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Mouse, Rat, By Heat Immunohistochemistry(Frozen Section), 0.5-1 □g/ml, Mouse, Rat, - Western blot, 0.1-0.5 □g/ml, Mouse, Rat
Subcellular Localization	Cell membrane; Single-pass type I membrane protein.
Tissue Specificity	Highest levels in brain. Lower levels in kidney, heart and lung. Also found in skeletal muscle and testis.
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 mouse CX3CL1(74-92aa CADPKEKWVQDAMKHLDHQ), identical to the related rat sequence.

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.

Protein Information

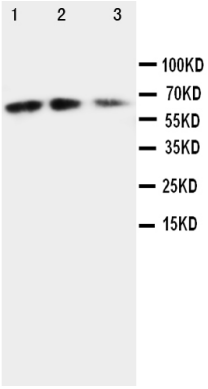
Name	Cx3cl1 {ECO:0000303|PubMed:9479488, ECO:0000312|MGI:MGI:1097153}
Function	Chemokine that acts as a ligand for both CX3CR1 and integrins ITGAV:ITGB3 and ITGA4:ITGB1 (PubMed:10187784, PubMed:18971423). The CX3CR1-CX3CL1 signaling exerts distinct functions in different tissue compartments, such as immune response, inflammation, cell adhesion and chemotaxis (PubMed:10187784, PubMed:10382755, PubMed:18971423, PubMed:9177350). Regulates leukocyte adhesion and migration processes at the endothelium (PubMed:10382755, PubMed:9177350). Can activate integrins in both a CX3CR1-dependent and CX3CR1-independent manner (By similarity). In the presence of CX3CR1, activates integrins by binding to the classical ligand-binding site (site 1) in integrins (By similarity). 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 (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Highest levels in brain (PubMed:10508268, PubMed:9177350, PubMed:9479488, PubMed:9845323). Lower levels in kidney, heart and lung (PubMed:10508268, PubMed:9177350, PubMed:9479488). Also found in skeletal muscle and testis (PubMed:9177350, PubMed:9479488). Highly expressed in lesional smooth muscle cells, but not macrophages (PubMed:12569158). Low levels of ABCD-3 mRNA were also found in anti-CD40-stimulated splenic B-cells, but not in resting B-cells. Also expressed in dendritic cells (PubMed:10508268).

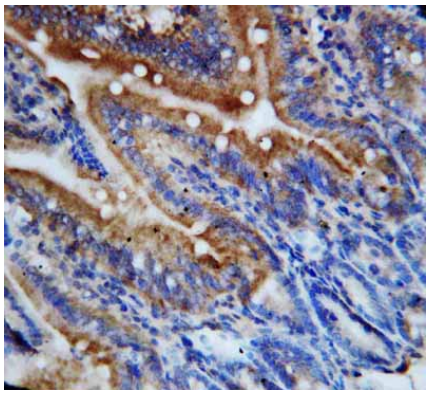
Background

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, ABO10724, Western blottingLane 1: Recombinant Mouse Fractalkin Protein 10ngLane 2: Recombinant Mouse Fractalkin Protein 5ngLane 3: Recombinant Mouse Fractalkin Protein 2.5ng





Anti-CX3CL1 antibody, ABO10724, IHC(P)IHC(P): Rat Intestine Tissue

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