

TECHNICAL DATA SHEET

Purified Rabbit Anti-human CX₃CR1

Catalog Number: TP502

Lot Number: 032304

Content: Protein A purified rabbit IgG, 200 µg, with 0.1% sodium azide, lyophilized.

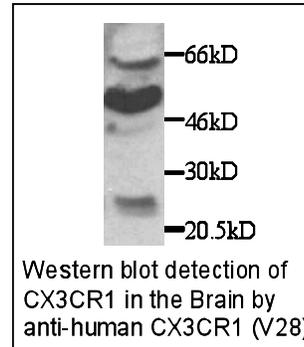
(Reconstitute to 1 mg/ml by adding 200 µl H₂O)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with recombinant and natural human and rat CX₃CR1, was generated using *E. coli*-expressed human CX₃CR1 amino terminal domain as an immunogen. This antibody can be used for Western blot (1:1,000-1:2,000)¹, Flow cytometry,² neutralizing (chemotaxis assay, 15µg/ml)³ and Immunohistochemistry (1:100-1:500).⁴

Cross reactivity to CX₃CR1 of other species has not been determined.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: Fractalkine, also termed neurotactin, is a membrane-bound CX₃C chemokine¹. Human CX₃CR1, also named V28, was first cloned from human genomic DNA libraries². A G-protein-coupled seven-transmembrane domain receptor, it was recently identified to serve as fractalkine receptor^{3,4}. Human CX₃CR1 has been



shown to mediate both the adhesive and migratory functions of fractalkine. Fractalkine and CX₃CR1 represent new types of leukocyte trafficking regulators.

References:

1. Shannon A. Shulby, et al. CX₃CR1-Fractalkine Expression Regulates Cellular Mechanisms Involved in Adhesion, Migration, and Survival of Human Prostate Cancer Cells. *Cancer Research* 64, 4693–4698, July 15, 2004
2. Simone R. Green, et al. The CC Chemokine MCP-1 Stimulates Surface Expression of CX₃CR1 and Enhances the Adhesion of Monocytes to Fractalkine/CX₃CL1 via p38 MAPK. *The Journal of Immunology*, 2006, 176: 7412-7420
3. Bénédicte Chazaud, et al. Satellite cells attract monocytes and use macrophages as a support to escape apoptosis and enhance muscle growth. *The Journal of Cell Biology*, 2003, 163(5):1133-1143
4. Paolo Fraticelli, et al. Fractalkine (CX₃CL1) as an amplification circuit of polarized Th1 responses. *J Clin Invest*, May 2001, 107(9): 1173-1181

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