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 receptor³,⁴. 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:

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