



Product Information Sheet

Polyclonal Anti- CXCR4 (Magnetic Bead Conjugate)

Catalogue No. PA1237-M	Immunogen
Lot No. 09E01	A synthetic peptide corresponding to a sequence at the N-terminal of human CXCR4, different to the related rat sequence by two amino acids.
Ig type: rabbit IgG1	Purification Immunogen affinity purified
Size: 100µg/Vial	Contents Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN ₃ .
Specificity Human, rat, mouse. No cross reactivity with other proteins.	Storage Store at 4°C for frequent use.
Recommended application <i>Immunoprecipitation(IP)</i>	Description: This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

BACKGROUND

CXCR4 is the receptor for the CXC chemokine SDF1 that has essential functions on embryo organogenesis, immunological functions and T lymphocyte trafficking. CXCR4 is the only SDF1 receptor identified so far. This suggests that CXCR4 expression is critical for the biological effects of SDF1.¹ CXCR4 is a seven-transmembrane-spanning, G-protein-coupled receptor for the CXC chemokine PBSF/SDF-1, it functions as a co-receptor for T-cell-line tropic human immunodeficiency virus HIV-1. Tachibana et al. (1998) conclude that PBSF/SDF-1 and CXCR4 define a new signalling system for organ vascularization.²

REFERENCE

1. Caruz, A.; Samsom, M.; Alonso, J. M.; Alcamí, J.; Baleux, F.; Virelizier, J. L.; Parmentier, M.; Arenzana-Seisdedos, F. : Genomic organization and promoter characterization of human CXCR4 gene. *FEBS Lett.* 426: 271-278, 1998.
2. Tachibana, K.; Hirota, S.; Iizasa, H.; Yoshida, H.; Kawabata, K.; Kataoka, Y.; Kitamura, Y.; Matsushima, K.; Yoshida, N.; Nishikawa, S.; Kishimoto, T.; Nagasawa, T. : The chemokine receptor CXCR4 is essential for vascularization of the gastrointestinal tract. *Nature* 393: 591-594, 1998.

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