



Polyclonal Anti- CXCR4 (Sephacrose Bead Conjugate)

Catalogue No. PA1237-S

Lot No. 09E01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, ,rat, mouse. No cross reactivity with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human CXCR4, different to the related rat sequence by two amino acids.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2
with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

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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