



## Product Information Sheet

### Polyclonal Anti- CXCR4 (Magnetic Bead Conjugate)

<b>Catalogue No.</b> PA1237-M	<b>Immunogen</b>
<b>Lot No.</b> 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.
<b>Ig type:</b> rabbit IgG1	<b>Purification</b> Immunogen affinity purified
<b>Size:</b> 100µg/Vial	<b>Contents</b> Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN <sub>3</sub> .
<b>Specificity</b> Human, rat, mouse. No cross reactivity with other proteins.	<b>Storage</b> Store at 4°C for frequent use.
<b>Recommended application</b> <i>Immunoprecipitation(IP)</i>	<b>Description:</b> 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.<sup>1</sup> 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.<sup>2</sup>

#### REFERENCE

1. Caruz, A.; Samsom, M.; Alonso, J. M.; Alcami, 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.

**For Research Use Only not for diagnostic and clinical use**

**Contact:** Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)