



## Product Information Sheet

### Polyclonal Anti- CXCR4

**Catalogue No.** PA1237

**Lot No.** 09E01

**Ig type** rabbit IgG

**Size** 100µg/vial

#### Specificity

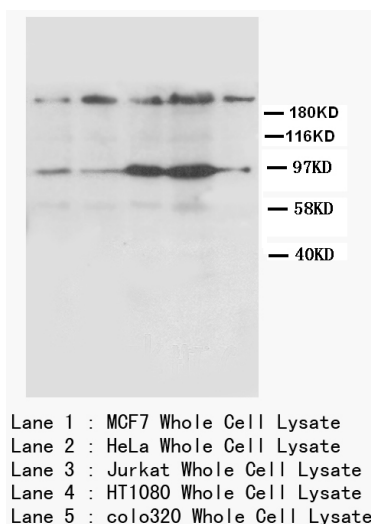
Human, rat, mouse.

No cross reactivity with other proteins.

#### Recommended application

*Western blot*

*Immunohistochemistry(P)*



#### 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.

#### Purity

Immunogen affinity purified.

#### Application

|       | Concentration | Tested Species | Concluded Species | Antigen Retrieval |
|-------|---------------|----------------|-------------------|-------------------|
| WB    | 1µg/ml        | Hu, Rat        | Ms                | -                 |
| IHC-P | 2µg/ml        | Hu             | -                 | By Heat           |
| IHC-F | -             | -              | -                 | -                 |
| ICC   | -             | -              | -                 | -                 |

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

#### Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

#### Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

#### Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

**Antagene, Inc.**

**Toll Free: 1(866)964-2589**

**email: Info@antageneinc.com**

**FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.**

## **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.