



## Capralogics, Inc. Product Data Sheet

**Peptide Affinity purified Goat IgG antibody to mouse CxCR4 Chemokine Receptor**

The HIV receptor is composed of two molecules, the CD4 binding receptor and a co-receptor. The human chemokine receptor CxCR4 is one of the co-receptors used by primary isolates of HIV-1. Extracellular domains of human CxCR4 are important for HIV entry into the target cells. Mouse CxCR4 receptor is 91% identical to human CxCR4 and can function as co-receptor when co-expressed with human CD4.

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| Catalog #:           | CI 0116   |
| Product Description: | Anti-peptide antiserum to amino-terminal extracellular domain of mouse CxCR-4 receptor.   |
| Sequence of Peptide: | NH2-YSEEVGSGDYDSNKEPCFRDENVHFNH   |
| Host:                | Goat  |
| Form:                | Peptide affinity purified IgG   |
| Specificity:         | Binds to CXCR 4 receptor on mouse spleen leukocytes as determined by immunocytochemistry.   |
| Purification Method: | Peptide affinity column   |
| Applications:        | Western Blotting and Immunocytochemistry.   |
| Titer:               | ELISA: 1:50,000<br>Western Blotting titer 1:1000<br>Immunocytochemistry 1:300<br>Immunohistochemistry 1:300   |
| Formulation:         | 200 ug per vial in PBS pH 7.2 with 1 mg/ml BSA and 0.1% sodium azide. Antibody in formulation without azide for neutralization studies is also available. |
| Quality Control:     | Immunocytochemistry on mouse spleen cells.  |

**References:**

Bieniasz et.al. 1997. Murine CxCR-4 is a functional coreceptor for T-cell tropic and dual tropic strains of human immunodeficiency virus type 1. *J Virol.* 71: 7097. Heesen, M. etal. 1996. Cloning of the mouse fusin gene, homologue to a human HIV-1 cofactor. *J Immunol.* 157: 5455.

Stability/Shelf Life: > 3 years at -70 C

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