

## Anti-CXCR4 (NT) Antibody

### ORDERING INFORMATION

**Catalog No.:** 1009

**Size:** 100 ug IgG in PBS, pH 7.4, purified by immunoaffinity chroma-tography.

### BACKGROUND

Human immunodeficiency virus (HIV) and related viruses require coreceptors in addition to CD4 to infect target cells. Some G protein-coupled receptors in the chemokine receptor family, including CCR5, CXCR4, CCR3, CCR2b, and CCR8 have been identified as HIV coreceptors. CXCR4 (also called Fusin, LESTR, HUMSTR) is a principal coreceptor for T-cell tropic strains of HIV-1. CXCR4 is also required for the infection by dual-tropic strains of HIV-1 and mediates CD4-independent infection by HIV-2. CXCR4 associates with the surface CD4-gp120 complex before HIV enters target cells. The amino-terminal domain and the second extracellular loop of CXCR4 serve as HIV binding sites. CXCR4 messenger RNA levels correlate with HIV-1 permissiveness in diverse human cell types. Antibodies to CXCR4 may block HIV-1 and HIV-2 fusion and infection of human target cells.

### SPECIFICATION SUMMARY

**Antigen:** Peptide corresponding to the N-terminus of human CXCR4.

**Host Species:** Rabbit

**Stabilizers:** None

**Preservatives:** 0.02% sodium azide.

### SPECIFICITY

This antibody recognizes full-length human CXCR4 (40 kD).

### APPLICATIONS

*Immunoblotting:* use at 1:1,000-1:2,000 dilution.

*Immunoprecipitation:* use at 1:1,000-1:2,000 dilution.

*Immunocytochemistry:* use at 1:1,000-1:1,2000 dilution.

*Positive control:* Whole cell lysate from HeLa cells.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*