

Anti-CXCR4 (EL) Antibody

ORDERING INFORMATION

Catalog No.: 1012

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 in the chemokine receptor family, 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. The α -chemokine SDF-1 is the ligand for EXCR4 and prevents infection by T-cell tropic HIV-1. 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 infection of human target cells.

SPECIFICATION SUMMARY

Antigen: Peptide corresponding to aa 182-196 in the second extracellular loop (EL) of human CXCR4.

Host Species: Rabbit

Stabilizers: None

Preservatives: 0.02% sodium azide.

SPECIFICITY

This antibody recognizes human and mouse CXCR4 (40 kD).

APPLICATIONS

Immunoblotting: use at 1:500-1:1,000 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.