

CXCR4 Polyclonal Antibody

CATALOG #: 5540-100

AMOUNT: 100 µg

LOT #: _____

HOST: Rabbit

IMMUNOGEN: *E. coli*-expressed rat CXCR4

FORMULATION:

100 µg (0.5 mg/ml) protein A purified rabbit anti-CXCR4 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.01% thimerosal.

SPECIES REACTIVITY: mouse, rat

STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/defrost cycles.

DESCRIPTION:

CXCR4 (fusin) is a member in the seven-transmembrane domain G-protein-coupled chemokine receptor family. The full-length cDNA was isolated from a human spleen cDNA library. Its ligand is chemokine stroma-derived factor (SDF). CXCR4 has been shown to be the co-receptor for HIV-1 binding to CD4 through the viral envelope glycoprotein gp120. In other cases, CXCR4 can function as the only receptor for the interaction of HIV-2 with CD4 and host cells. A mouse monoclonal antibody (12G5) to CXCR4 has been shown to inhibit HIV infectivity and HIV-induced syncytium.

APPLICATION AND SPECIFICITY:

The antibody can be used for Western blot analysis (1 µg/ml), neutralization and FACS analysis. However, the optimal conditions should be determined individually.

NOTE: For research use only! Not to be used in human.

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