

Product Information

Contents: Polyclonal rabbit anti-mouse and rat CXCR4

Catalog Number: 14-7990

Sizes: 50 ug, 200 ug

Formulation: Contains 0.09% NaN₃.

The 50µg size of this antibody is supplied in liquid form. The 200µg size of this antibody may be supplied in liquid or lyophilized powder forms. To reconstitute the lyophilized antibody, add 200µl of PBS for a final concentration of 1mg/ml.

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: Polyclonal

Isotype: Rabbit IgG

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-7990	Polyclonal anti-mouse/rat CXCR4 (Fusin)	N/A	N/A	WB

Description

The CXCR4 polyclonal antibody reacts with both rat and mouse CXCR4 and was generated using *E. coli*-expressed rat CXCR4 as an immunogen. CXCR4 (Fusin) is a member of 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 via 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.

Usage

For research use only, not for diagnostic or therapeutic use. This polyclonal antibody has been reported for use in immunoblotting (WB). Cross-reactivity to CXCR4 in other species has not been determined.

Applications Tested

The tested titer for Western blot is 1:2000. It is recommended that the reagent be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 18-8816 Rabbit TrueBlot™: Horseradish Peroxidase (HRP) anti-rabbit IgG

References

- Federspiel, B. et al. 1993. Molecular cloning of the cDNA and chromosomal localization of the gene for a putative seven-transmembrane segment (7-TMS) receptor isolated from human spleen. *Genomics* 16 (3): 707-12
- Nagasawa, T. et al. 1998. A novel CXC chemokine PBSF/SDF-1 and its receptor CXCR4: their functions in development, hematopoiesis and HIV. *Semin Immunol* 10 (3): 179-85
- Mcknight, A. et al. 1997. Inhibition of Human Immunodeficiency Virus Fusion by a Monoclonal Antibody to a Coreceptor (CXCR4) Is both Cell Type and Virus Strain Dependent. *J. Virol.*, 71 (2): 1692-1696

