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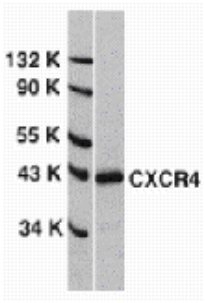
Anti-Human/Mouse CD184 (CXCR4) Purified

Catalog Number: 14-6009
Also Known As: Fusin
RUO: For Research Use Only



Immunoblot analysis of HeLa reduced cell lysate with 'Anti-Human/Mouse CD184 (CXCR4) Purified at 0.5 µg/ml and detected using goat Anti-Rabbit IgG-HRP.

Product Information

Contents: Anti-Human/Mouse CD184 (CXCR4) Purified
REF **Catalog Number:** 14-6009
Clone: Polyclonal
Concentration: 0.5 mg/mL
Host/Isotype: Rabbit IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The rabbit anti-human CXCR4 polyclonal antibody was raised against a peptide corresponding to amino acids 1 to 14 of human CXCR4. Human immunodeficiency virus (HIV) and related viruses require coreceptors, in addition to CD4, to infect target cells. Some G protein-coupled receptors including CCR5, CXCR4, CCR3, CCR2b and CCR8 in the chemokine receptor family, and four new human molecules GPR15, STRL33, GPR1 and V28 were recently identified as HIV coreceptors. Among them, CXCR4 (fusin, LESTR or HUMSTR) is a principal coreceptor for T-cell tropic strains of HIV-1 fusion and entry of human white blood cells. CXCR4 is also required for the infection by dual-tropic strains of HIV-1 and mediates CD-4 independent infection by HIV-2. The α-chemokine SDF-1 is the ligand for CXCR4 and prevents infection by T-tropic HIV-1. CXCR4 associates with the surface CD4-gp120 complex before HIV enters target cells. CXCR4 messenger RNA levels correlated with HIV-1 permissiveness in diverse human cell types. Antibodies to CXCR4 block HIV-1 and HIV-2 fusion and infection of human target cells. The amino-terminal domain and the second extracellular loop of CXCR4 serve as HIV binding sites.

Applications Reported

This polyclonal antibody has been reported for use in immunoprecipitation, immunoblotting (WB), and immunohistochemical staining.

Applications Tested

This product has been tested by immunoblotting (WB) (1:1000-1:2000). HeLa whole cell lysate can be used as positive control. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Related Products

12-9999 Anti-Human CD184 (CXCR4) PE (12G5)
13-9999 Anti-Human CD184 (CXCR4) Biotin (12G5)
14-7990 Anti-Mouse/Rat CD184 (CXCR4) Purified (Polyclonal)
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