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## RABBIT ANTI-CXCR4 (EXTRACELLULAR LOOP) POLYCLONAL ANTIBODY

**CATALOG NUMBER:** AB1847 QUANTITY: 100 μg

Rabbit LOT NUMBER: SPECIES:

SPECIFICITY: 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 (1). Among them, CXCR4 (fusin, LESTR or HUMSTR) is a principle coreceptor for T-cell tropic strains of HIV-1 fusion and entry of human white blood cells (2,3). CXCR4 is also required for the infection by dualtropic strains of HIV-1 and mediates CD-4 independent infection by HIV-2 (4,5). The αchemokine SDF-1 is the ligand for CXCR4 and prevents infection by T-tropic HIV-1 (6,7). CXCR4 associates with the surface CD4-gp120 complex before HIV enters target cells (8). CXCR4 messenger RNA levels correlated with HIV-1 permissiveness in diverse human cell types (2). Antibodies to CXCR4 block HIV-1 and HIV-2 fusion and infection of human target cells (2,5,10). The amino-terminal domain and the second extracellular loop of CXCR4

serve as HIV binding sites (10,11).

Extracellular loop peptide of human CXCR4 (3,9). IMMUNOGEN:

**APPLICATIONS:** Western blot: 1:500 - 1000

Optimal working dilutions must be determined by end user.

Human and mouse **SPECIES REACTIVITIES:** 

Purified **FORMAT:** 

PRESENTATION: Purified IgG @ 1 mg/mL in PBS containing 0.02% sodium azide.

STORAGE/HANDLING: Can be refrigerated at 2-8°C in undiluted aliquots for up to 12 months.

**REFERENCES:** 1. Nimitrov, DS (1997) Cell. 91:721-730.

2. Feng, Y et al. (1996) Science. 272:872-877.

3. Berson, JF et al. (1996) J Virol. 70:6288-6295. 4. Doranz, BJ et al. (1996) Cell. 85:1149-1158.

5. Endres, MJ et al. (1996) Cell. 87:745-756.

Bleul, CC et al. (1996) Nature. 382:829-833.

7. Oberlin, E et al. (1996) Nature. 382:833-835.

8. Lapham, CK et al. (1996) Science. 274:602-605.

9. Leotscher, M et al. (1994) J Biol Chem. 269:232-237.

10. Brelot, A et al. (1997) J Virol. 71:4744-4751.

11. Lu, Z et al. (1997) Proc Natl Acad Sci USA. 94:6426-6431.





Important Note:

During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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