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DATA SHEET

Reagent: Anti-Human CCR5 Polyclonal (NT)

Catalog Number: 11232

Lot Number: 1112-0803D

Provided: 50 µg per vial at 1 mg/ml supplied in PBS containing 0.02% sodium azide.

Host: Rabbit anti-CCR5 polyclonal antibody was raised against a peptide corresponding to amino acids 6 to 20 of human CCR5 (10,11).

Description: Human immunodeficiency virus (HIV) and related virus 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 (1,2). Among them, CCR5 (CC-CKR-5) is a principal coreceptor for macrophage- and dual-tropic HIV-1 strains fusion and entry of human white blood cells (3,4). CCR5 is required for the infection by HIV-1, HIV-2, and SIV (1,2). The b-chemokines RANTES, MIP-1a and MIP-1b are the ligands for CCR5 and prevent infection by M-tropic HIV-1 (3-5). CXCR5 associates with the surface CD4-gp120 of HIV complex and leads to membrane fusion and virus entry of target cells (6,7). The amino-terminal domain and the extracellular loops of CCR5 serve as HIV binding sites (8,9). CCR5 messenger RNA is expressed in lymphoid organs and monocytes.

Recommended Storage: Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.

Contributor: ProSci Incorporated

References:

1. Dimitrov, DS. *Cell* 1997;**91**:721-30
2. Littman, DR. *Cell* 1998;**93**:677-80.
3. Deng, H, et al. *Nature* 1996;**381**:661-6.
4. Dragic, T, et al. *Nature* 1996;**381**:667-73.
5. Coochi, F. et al. *Science* 1995;**270**:1811-5.
6. Wu, L. et al. *Nature* 1996;**384**:179-83.
7. Trkola, A. et al. *Nature* 1996;**384**:184-7.
8. Doranz, BJ. et al. *J Virol* 1997;**71**:6305-14.
9. Dragic, T, et al. *J Virol* 1998;**72**:279-85.
10. Raport, CJ, et al. *J Biol Chem* 1996;**271**:17161-6.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

11. Combadiere, C. et al. *J Leuk Biol* 1996;**60**:147-52.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS: Anti-Human CCR5 Polyclonal (NT)." Also include the references cited above in any publications.

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