
CCR5 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 253298

Unit: 0.1 mg

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. 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. CCR5 is required for the infection by HIV-1, HIV-2, and SIV. The beta-chemokines RANTES, MIP-alpha and MIP-beta are the ligands for CCR5 and prevent infection by M-tropic HIV-1. CXC5 associates with the surface CD4-gp120 of HIV complex and leads to membrane fusion and virus entry of target cells. The amino-terminal domain and the extracellular loops of CCR5 serve as HIV binding sites. CCR5 messenger RNA is expressed in lymphoid organs and monocytes.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H

Format: Each vial contains 0.1 mg IgG in 0.2 ml (0.5 mg/ml) of PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by DEAE chromatography.

Alternate Names: C-C chemokine receptor type 5; C-C CKR-5; CC-CKR-5; CCR-5; CCR5; HIV-1 fusion coreceptor; CHEMR13; CD195; CCR5; CMKBR5

Accession No.: AAB57793

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human CCR5.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.