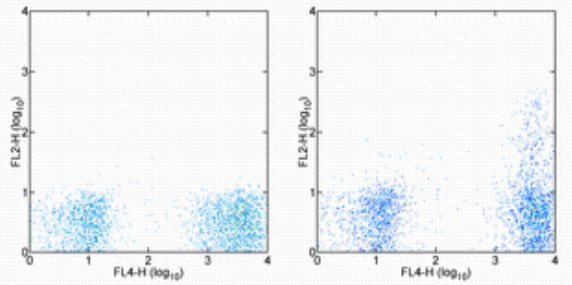
Anti-Human CD195 (CCR5) PE

Catalog Number: 12-1957
Also Known As: CCR-5
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD3 APC (cat. 17-0038) and Mouse IgG1 kappa Isotype Control PE (cat. 12-4714) (left) or Anti-Human CD195 (CCR5) PE (right). Cells in the lymphocyte gate were used for analysis

Product Information

Contents: Anti-Human CD195 (CCR5) PE
REF **Catalog Number:** 12-1957
Clone: eBioT21/8 (T21/8)
Concentration: 5 uL (0.125 ug)/test
Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The eBioT21/8 monoclonal antibody reacts with the amino terminus of human CCR5 (CD195), an approximately 45 kDa member of the G protein-coupled receptor (GPCR) superfamily that binds chemokines including MIP-1α, MIP-1β and RANTES. Human CCR5 is expressed on resting T cells with a memory/effector phenotype, monocytes, macrophages and immature dendritic cells. CCR5 functions as a receptor to direct the chemotaxis of lymphocytes, and is the primary co-receptor for macrophage-tropic Human Immunodeficiency Virus Type 1 (HIV-1), which binds CCR5 through gp120. Binding of the eBioT21/8 monoclonal antibody displays donor variability and may be affected by sub-optimal staining conditions.

Applications Reported

This eBioT21/8 (T21/8) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioT21/8 (T21/8) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. For optimal performance, it is recommended that staining with NP-6G4 be done at 37°C for 1 hour in Flow Cytometry Staining Buffer (cat. 00-4222). This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Pollok-Kopp B, Schwarze K, Baradari VK, Oppermann M. Analysis of ligand-stimulated CC chemokine receptor 5 (CCR5) phosphorylation in intact cells using phosphosite-specific antibodies. J Biol Chem. 2003 Jan 24;278(4):2190-8. (**eBioT21/8**, ELISA, IHC, PubMed)

Deng H, Liu R, Ellmeier W, Choe S, Unutmaz D, Burkhart M, Di Marzio P, Marmon S, Sutton RE, Hill CM, Davis CB, Peiper SC, Schall TJ, Littman DR, Landau NR. Identification of a major co-receptor for primary isolates of HIV-1. Nature. 1996 Jun 20;381(6584):661-6.

Raport CJ, Gosling J, Schweickart VL, Gray PW, Charo IF. Molecular cloning and functional characterization of a novel human CC chemokine receptor (CCR5) for RANTES, MIP-1beta, and MIP-1alpha. J Biol Chem. 1996 Jul 19;271(29):17161-6.

Related Products

12-1958 Anti-Human CD195 (CCR5) PE (R22/7)
12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)
17-0038 Anti-Human CD3 APC (UCHT1)