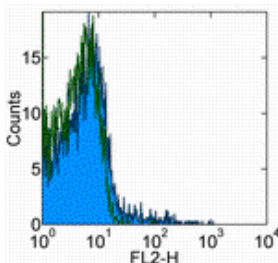


## Anti-Human CD195 (CCR5) Purified

Catalog Number: 14-1957

Also Known As: CCR-5

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with 0.25 µg of Mouse IgG1 kappa Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 µg of Anti-Human CD195 (CCR5) Purified (filled histogram) followed by Anti-Mouse IgG Biotin (cat. 13-4013) and Streptavidin PE (cat. 12-4317). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD195 (CCR5) Purified

**REF** **Catalog Number:** 14-1957

**Clone:** eBioT21/8 (T21/8)

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



**Temperature Limitation:** Store at 2-8°C.



**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-1 $\alpha$ , MIP-1 $\beta$  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, immunoprecipitation, immunoblotting (WB) and immunohistochemical staining. The eBioT21/8 monoclonal antibody has also been used as the capture antibody for the ELISA detection of human CCR5 in cell lysates.

### Applications Tested

This eBioT21/8 (T21/8) antibody has been 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 less than or equal to 0.5 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### Special Notes

Binding of the eBioT21/8 monoclonal antibody displays donor variability and may be affected by sub-optimal staining conditions. Therefore, staining conditions should be closely monitored to ensure consistent staining.

### 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-1 $\beta$ , and MIP-1 $\alpha$ . *J Biol Chem.* 1996 Jul 19;271(29):17161-6.

### Related Products

00-4202 ELISA Diluent Solution (5X)

11-4011 Anti-Mouse IgG FITC  
11-4317 Streptavidin FITC  
12-1958 Anti-Human CD195 (CCR5) PE (R22/7)  
12-4317 Streptavidin PE  
13-4013 Anti-Mouse IgG Biotin (Polyclonal)  
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)  
17-4317 Streptavidin APC  
18-4100 Avidin HRP  
44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

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