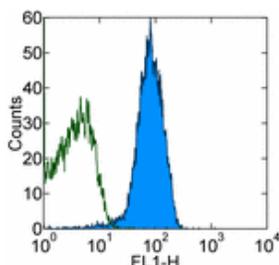


Anti-Mouse CD199 (CCR9) Purified

Catalog Number: 14-1991

Also Known As: CCR-9

RUO: For Research Use Only



Staining of C57BL/6 thymocytes with 0.25 µg of Mouse IgG2a κ Isotype Control Purified (cat. 14-4724) (open histogram) or 0.25 µg of Anti-Mouse CD199 (CCR9) Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD199 (CCR9) Purified

 Catalog Number: 14-1991

Clone: eBioCW-1.2 (CW-1.2)

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG2a

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

Description

The eBioCW-1.2 monoclonal antibody reacts with mouse CCR9 (CD199), which is the receptor for thymus-expressed chemokine (TECK). CCR9 is a member of the G protein coupled receptor (GPCR) supergene family, and is involved in trafficking of T cell progenitors within the thymus. CCR9 expression during thymocyte development commences at the double-negative (DN) 3 stage (CD4-CD8-CD25+CD44-), peaks in the double-positive (DP) stage (CD4+CD8+CD25-CD44-), and is down-regulated in committed CD4+ or CD8+ single-positive (SP) thymocytes. CCR9-deficient mice show a mild impairment in thymocyte development. In the periphery, CCR9 is thought to be expressed on naïve CD8+ T cells, but not on naïve CD4+ T cells.

Applications Reported

This eBioCW-1.2 (CW-1.2) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioCW-1.2 (CW-1.2) antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Liu C, Saito F, Liu Z, Lei Y, Uehara S, Love P, Lipp M, Kondo S, Manley N, Takahama Y. Coordination between CCR7- and CCR9-mediated chemokine signals in pre-vascular fetal thymus colonization. *Blood*. 2006 Jun 29.

Wurbel MA, Malissen B, Campbell JJ. Complex regulation of CCR9 at multiple discrete stages of T cell development. *Eur J Immunol*. 2006 Jan;36(1):73-81. (CW-1.2, FC, Development of mAb, PubMed)

Zaballos A, Gutierrez J, Varona R, Ardavin C, Marquez G. Cutting edge: identification of the orphan chemokine receptor GPR-9-6 as CCR9, the receptor for the chemokine TECK. *J Immunol*. 1999 May 15;162(10):5671-5.

Related Products

14-4724 Mouse IgG2a K Isotype Control Purified

