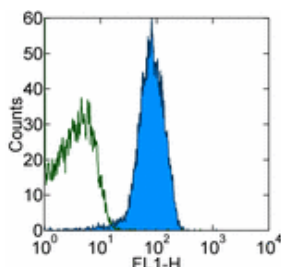


## Anti-Mouse CD199 (CCR9) Purified

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 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.

### 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

