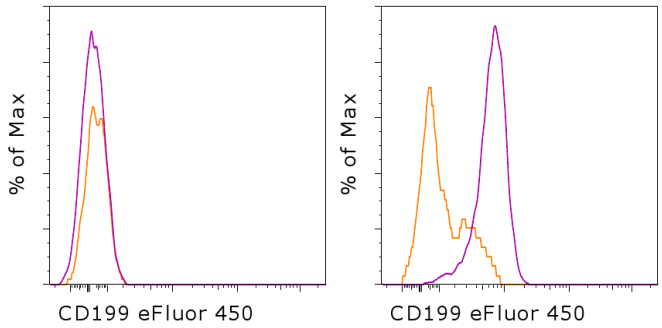
Anti-Mouse CD199 (CCR9) eFluor® 450

Catalog Number: 48-1991
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of BALB/c thymocytes with Anti-Mouse CD4 APC (cat. 17-0041), Anti-Mouse CD8a PerCP-eFluor® 710 (cat. 46-0081) and 0.5 ug of Mouse IgG2a K Isotype Control eFluor® 450 (cat. 48-4724) (left) or 0.5 ug of Anti-Mouse CD199 (CCR9) eFluor® 450 (right). Samples were gated on CD4 single positive (orange histogram) or CD4+CD8+ double positive cells (purple histogram).

Product Information

Contents: Anti-Mouse CD199 (CCR9) eFluor® 450
REF **Catalog Number:** 48-1991
Clone: eBioCW-1.2 (CW-1.2)
Concentration: 0.2 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. Do not freeze. Light-sensitive material.
LOT **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 commited CD4+ or CD8+ single-positive (SP) thymoyctes. CCR9-deficient mice show a mild impairment in thymoycte 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 or mouse thymocytes. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

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

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receptor GPR-9-6 as CCR9, the receptor for the chemokine TECK. J Immunol. 1999 May 15;162(10):5671-5.

Related Products
17-0041 Anti-Mouse CD4 APC (GK1.5)
46-0081 Anti-Mouse CD8a PerCP-eFluor® 710 (53-6.7)
48-4724 Mouse IgG2a K Isotype Control eFluor® 450

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