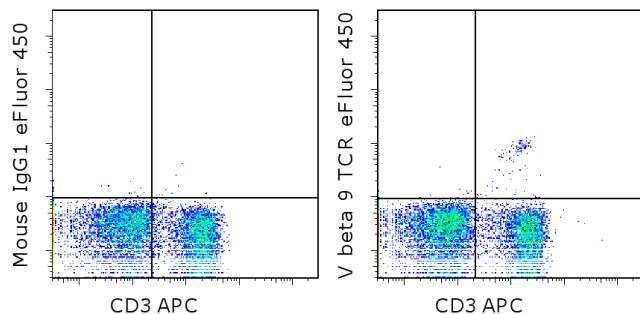


Anti-Mouse V beta 9 TCR eFluor[®] 450

Catalog Number: 48-5823

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



Staining of C57Bl/6 lymph node with Anti-Mouse CD3e APC (cat. 17-0031) and 0.25 ug of Mouse IgG1 K Isotype Control eFluor[®] 450 (cat. 48-4714) (left) or 0.25 ug of Anti-Mouse V beta 9 TCR eFluor[®] 450 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse V beta 9 TCR eFluor[®] 450

REF **Catalog Number:** 48-5823

Clone: MR10-2

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG1, k

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.

Batch Code: Refer to vial

Use By: Refer to vial



Description

This MR10-2 monoclonal antibody reacts with the mouse T-cell receptor (TCR) V beta 9 chain. Composed of an alpha and beta chain, TCR specificity is typically determined by Va, Ja, Vb, Db, and Jb gene rearrangement. The MR10-2 antibody recognizes the V beta 9 chain on T cells from mouse strains with the b haplotype, including BALB/c, CBA/Ca, C3H/He, and C57BL. This gene is deleted in mice bearing the a (e.g., C57BR, C57L, SJL, and SWR) or c (e.g., RIII) haplotypes. T cells expressing V beta 9 are also deleted in mice expressing the minor lymphocyte stimulating (MIs)-1a antigen.

The MR10-2 antibody has been reported to activate V beta 9+ T cells.

Applications Reported

Anti-Mouse V beta 9 TCR eFluor[®] 450 has been reported for use in flow cytometric analysis.

Applications Tested

Anti-Mouse V beta 9 TCR eFluor[®] 450 has been tested by flow cytometric analysis of mouse lymph node. 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.

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 fluorochrome.

References

Joshi PS, Liu JQ, Wang Y, Chang X, Richards J, Assarsson E, Shi FD, Ljunggren HG, Bai XF. Cytokine-induced killer T cells kill immature dendritic cells by TCR-independent and perforin-dependent mechanisms. *J Leukoc Biol.* 2006 Dec;80(6):1345-53. (MR10-2, FC)

Kanagawa O, Shimizu J, Vaupel BA. Thymic and postthymic regulation of diabetogenic CD8 T cell development in TCR transgenic nonobese diabetic (NOD) mice. *J Immunol.* 2000 May 15;164(10):5466-73. (MR10-2, FC)

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Utsunomiya Y, Kosaka H, Kanagawa O. Differential reactivity of V beta 9 T cells to minor lymphocyte stimulating antigen in vitro and in vivo. Eur J Immunol. 1991 Apr;21(4):1007-11. (MR10-2, FC, FA (activating))

Related Products

17-0031 Anti-Mouse CD3e APC (145-2C11)

48-4714 Mouse IgG1 K Isotype Control eFluor® 450 (P3.6.2.8.1)

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