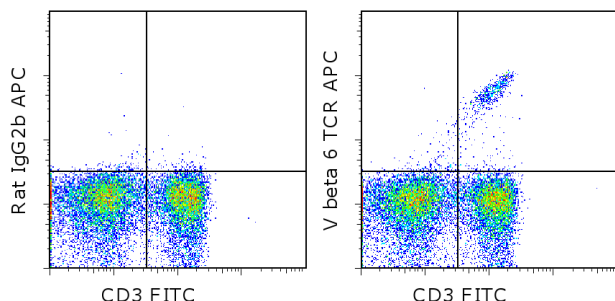


Anti-Mouse V beta 6 TCR APC

Catalog Number: 17-5795

Also known as: Vb6-TCR, Vb-6

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



Staining of C57Bl/6 lymph nodes with Anti-Mouse CD3e FITC (cat. 11-0031) and 0.125 ug of Rat IgG2b K Isotype Control APC (cat. 17-4031) (left) or 0.125 ug of Anti-Mouse V beta 6 TCR APC (right). Cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Mouse V beta 6 TCR APC

Catalog Number: 17-5795

Clone: RR4-7

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, 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 RR4-7 monoclonal antibody reacts with mouse V beta 6 TCR. Composed of an α and β chain, TCR specificity is typically determined by Va, Ja, Vb, Db, and Jb gene rearrangement. The RR4-7 antibody recognizes the V beta 6 chain on T cells from mouse strains with the *a* (e.g., C57BR and SJL) and *b* haplotypes (e.g., BALB/c, C3H, and DBA/1). Reports indicate that strains expressing the Mls-1a antigen, particularly in the presence of MHC Class II I-E, possess fewer V beta 6 TCR⁺ T cells.

The RR4-7 antibody has been reported to have functional activity *in vitro* and *in vivo*.

Applications Reported

This RR4-7 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This RR4-7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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.

References

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Waldner H, Whitters MJ, Sobel RA, Collins M, Kuchroo VK. Fulminant spontaneous autoimmunity of the central nervous system in mice transgenic for the myelin proteolipid protein-specific T cell receptor. *Proc Natl Acad Sci U S A*. 2000 Mar 28;97(7):3412-7. (**RR4-7**, IHC-fr)

Anderson GD, Banerjee S, David CS. MHC class II A α and E α molecules determine the clonal deletion of V

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beta 6+ T cells. Studies with recombinant and transgenic mice. J Immunol. 1989 Dec 1;143(11):3757-61.

Kanagawa O, Palmer E, Bill J. The T cell receptor V beta 6 domain imparts reactivity to the Mls-1a antigen. Cell Immunol. 1989 Apr 1;119(2):412-26. (RR4-7)

MacDonald HR, Pedrazzini T, Schneider R, Louis JA, Zinkernagel RM, Hengartner H. Intrathymic elimination of Mls-a-reactive (V beta 6+) cells during neonatal tolerance induction to Mls-a-encoded antigens. J Exp Med. 1988 Jun 1;167(6):2005-10.

Related Products

11-0031 Anti-Mouse CD3e FITC (145-2C11)

17-4031 Rat IgG2b K Isotype Control APC