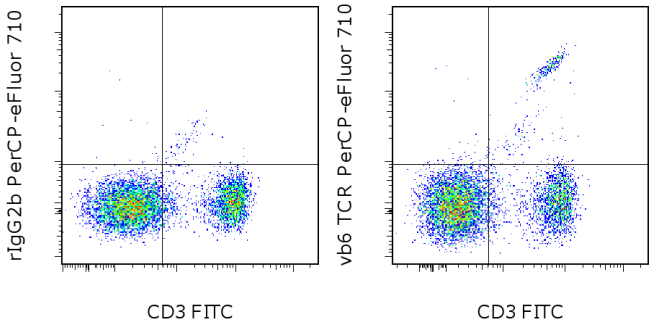
Anti-Mouse V beta 6 TCR PerCP-eFluor® 710

Catalog Number: 46-5795
Also known as: Vb6-TCR
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of BALB/c splenocytes with Anti-Mouse CD3e FITC (cat. 11-0031) and 0.06 ug of Rat IgG2b K Isotype Control PerCP-eFluor® 710 (cat. 46-4031) (left) or 0.06 ug of Anti-Mouse V beta 6 TCR PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse V beta 6 TCR PerCP-eFluor® 710
REF **Catalog Number:** 46-5795
Clone: RR4-7
Concentration: 0.2 mg/mL
Host/Isotype: Rat IgG2b, kappa

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
Contains sodium azide

Description

This RR4-7 monoclonal antibody reacts with mouse V beta 6 TCR. Composed of an a and b 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 0.125 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.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

References

Tang X, Maricic I, Kumar V. Anti-TCR antibody treatment activates a novel population of nonintestinal CD8 alpha

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alpha+ TCR alpha beta+ regulatory T cells and prevents experimental autoimmune encephalomyelitis. J Immunol. 2007 May 15;178(10):6043-50. (**RR4-7**, FC, FA)

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 alpha and E alpha molecules determine the clonal deletion of V 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 Mlsa-reactive (V beta 6+) cells during neonatal tolerance induction to Mlsa-encoded antigens. J Exp Med. 1988 Jun 1;167(6):2005-10.

Related Products
11-0031 Anti-Mouse CD3e FITC (145-2C11)
46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710

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