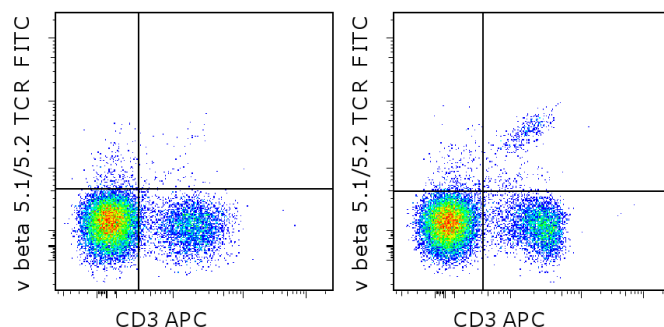


Anti-Mouse V beta 5.1/5.2 TCR FITC

Catalog Number: 11-5796

Also known as: Vb5.1, Vb5.2

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



Staining of BALB/c (left) and C57Bl/6 (right) splenocytes with Anti-Mouse CD3e APC (cat. 17-0031) and 0.125 ug of Mouse IgG1 K Isotype Control FITC (cat. 11-4714) or 0.125 ug of Anti-Mouse V beta 5.1/5.2 TCR FITC. Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse V beta 5.1/5.2 TCR FITC



Catalog Number: 11-5796

Clone: MR9-4

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG1, 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.



Batch Code: Refer to vial



Use By: Refer to vial

Description

This MR9-4 monoclonal antibody reacts with the mouse T cell receptor (TCR) V beta 5.1/5.2 chain. Composed of an alpha and beta chain, TCR specificity is typically determined by Va, Ja, Vb, Db, and Jb gene rearrangement. The MR9-4 antibody recognizes the V beta 5.1 and 5.2 chains on T cells from mouse strains with the *b* haplotype of the *Tcrb* gene, including C57BL/6, B10, and C58/J. V beta 5.1 and 5.2 are deleted in mouse strains that express MHC Class II I-E, including Balb/c, C3H, and DBA/2. Reports also indicate that V beta 5+ T cells recognize the OVA peptide.

Applications Reported

This MR9-4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This MR9-4 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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.

References

van Stipdonk MJ, Hardenberg G, Bijker MS, Lemmens EE, Droin NM, Green DR, Schoenberger SP. Dynamic programming of CD8+ T lymphocyte responses. *Nat Immunol.* 2003 Apr;4(4):361-5. (**MR9-4**, FC)

Dillon SR, Jameson SC, Fink PJ. V beta 5+ T cell receptors skew toward OVA+H-2Kb recognition. *J Immunol.* 1994 Feb 15;152(4):1790-801. (**MR9-4**, FC)

Kanagawa O, Utsunomiya Y, Bill J, Palmer E, Moore MW, Carbone FR. Conformational difference of T cell antigen receptors revealed by monoclonal antibodies to mouse V beta 5 T cell receptor for antigen determinants. *J Immunol.* 1991 Aug 15;147(4):1307-14. (**MR9-4**, FC)

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Woodland D, Happ MP, Bill J, Palmer E. Requirement for cotolerogenic gene products in the clonal deletion of I-E reactive T cells. Science. 1990 Feb 23;247(4945):964-7.

Related Products

00-4222 Flow Cytometry Staining Buffer

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)

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