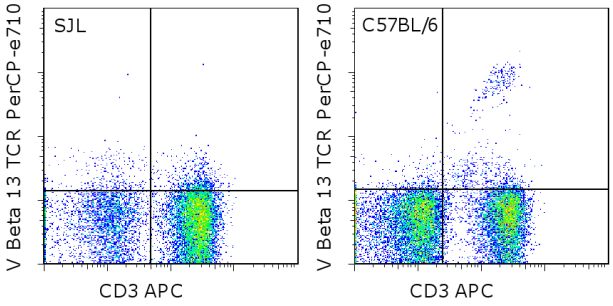
Anti-Mouse V beta 13 TCR PerCP-eFluor® 710

Catalog Number: 46-5797
Also known as: Vb13
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of SJL (left) and C57Bl/6 (right) splenocytes with Anti-Mouse CD3e APC (cat. 17-0032) and 0.06 ug of Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4714) (left) or 0.06 ug of Anti-Mouse V beta 13 TCR PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse V beta 13 TCR PerCP-eFluor® 710
REF **Catalog Number:** 46-5797
Clone: MR12-3
Concentration: 0.2 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.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

This MR12-3 monoclonal antibody reacts with the T cell receptor (TCR) V beta 13 chain. Composed of an alpha and beta chain, TCR specificity is typically determined by Va, Ja, Vb, Db, and Jb gene rearrangement. The MR12-3 antibody recognizes the V beta 13 chains on T cells from mouse strains with the b haplotype of the *Tcrb* gene, including C57BL/6, B10, and C3H. V beta 13+ T cells are deleted in mouse strains with the *a* (e.g., SJL) and *c* (e.g., RIIIS/J) haplotypes.

The MR12-3 monoclonal antibody has been reported to have blocking activity.

Applications Reported

This MR12-3 antibody has been reported for use in flow cytometric analysis and functional assays.

Applications Tested

This MR12-3 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.

Click here or contact eBioscience Technical Support for more information on eFluor™ Organic Dyes including PerCP-eFluor® 710.

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References

Gattinoni L, Ranganathan A, Surman DR, Palmer DC, Antony PA, Theoret MR, Heimann DM, Rosenberg SA, Restifo NP. CTLA-4 dysregulation of self/tumor-reactive CD8+ T-cell function is CD4+ T-cell dependent. Blood. 2006 Dec 1;108(12):3818-23. (**MR12-3**, FC)

Kalergis AM, Goyarts EC, Palmieri E, Honda S, Zhang W, Nathenson SG. A simplified procedure for the preparation of MHC/peptide tetramers: chemical biotinylation of an unpaired cysteine engineered at the C-terminus of MHC-I. J Immunol Methods. 2000 Feb 3;234(1-2):61-70. (**MR12-3**, FA (blocking))

Haqqi TM, Banerjee S, Anderson GD, David CS. RIII S/J (H-2r). An inbred mouse strain with a massive deletion of T cell receptor V beta genes. J Exp Med. 1989 Jun 1;169(6):1903-9.

Related Products

17-0032 Anti-Mouse CD3 APC (17A2)
46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)

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