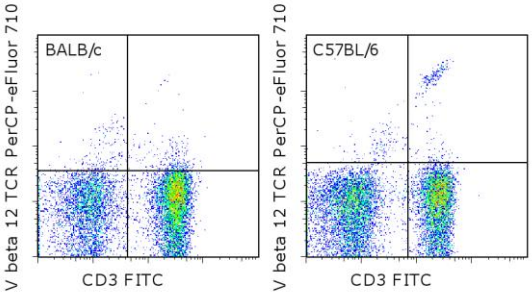
Anti-Mouse V beta 12 TCR PerCP-eFluor® 710

Catalog Number: 46-5798
Also known as: Vbeta12, Vb12
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of BALB/c (left) and C57BL/6 (right) lymph node cells with Anti-Mouse CD3e FITC (cat. 11-0031) and 0.125 ug of Anti-Mouse V beta 12 TCR PerCP-eFluor® 710. Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse V beta 12 TCR PerCP-eFluor® 710
REF **Catalog Number:** 46-5798
Clone: MR11-1
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 MR11-1 monoclonal antibody reacts with the mouse T cell receptor (TCR) V beta 12 chain. Composed of an alpha and beta chain, TCR specificity is typically determined by Va, Ja, Vb, Db, and Jb gene rearrangement. The MR11-1 antibody recognizes the V beta 12 chain on T cells from mouse strains with the *b* haplotype, including C57BL/6, B10, and C58/J. V beta 12+ T cells are absent in strains with the *a* (e.g., SJL) or *c* (e.g., RIII) haplotypes of the *Tcrb* gene complex. Finally, mouse strains expressing the minor lymphocyte stimulatory (Mls) antigens, such as BALB/c and C3H, express fewer V beta 12+ T cells.

Applications Reported

This MR11-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This MR11-1 antibody has been tested by flow cytometric analysis of mouse lymph node. 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 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

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Abe R, Kanagawa O, Sheard MA, Malissen B, Foo-Phillips M. Characterization of a new minor lymphocyte stimulatory system. I. Cluster of self antigens recognized by "I-E-reactive" V beta s, V beta 5, V beta 11, and V beta 12 T cell receptors for antigen. J Immunol. 1991 Aug 1;147(3):739-49. (**MR11-1**)

Vacchio MS, Hodes RJ. Selective decreases in T cell receptor V beta expression. Decreased expression of specific V beta families is associated with expression of multiple MHC and non-MHC gene products. J Exp Med. 1989 Oct 1;170(4):1335-46.

Related Products

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

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