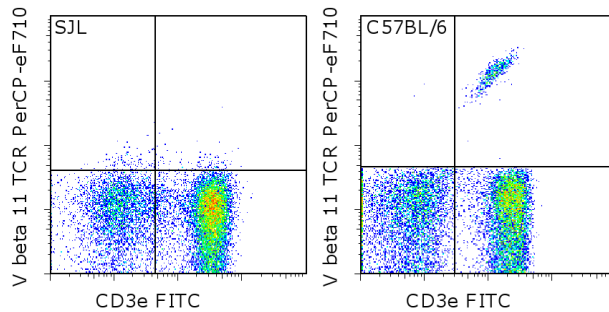


Anti-Mouse V beta 11 TCR PerCP-eFluor[®] 710

Catalog Number: 46-5827

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



Staining of SJL (left) and C57BL/6 (right) lymph nodes 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 11 TCR PerCP-eFluor[®] 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse V beta 11 TCR
PerCP-eFluor[®] 710

REF **Catalog Number:** 46-5827

Clone: RR3-15

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.

Batch Code: Refer to vial

Use By: Refer to vial



LOT



Description

This RR3-15 monoclonal antibody reacts with the mouse T-cell receptor (TCR) V beta 11 chain. Composed of an alpha and beta chain, TCR specificity is typically determined by Va, Ja, Vb, Db, and Jb gene rearrangement. The RR3-15 antibody recognizes the V beta 11 chain on T cells from mouse strains with the *b* haplotype in the *Tcrb* gene complex, including C57BL/6 and B10, but is absent in mice with the *a* haplotype, such as C57L, SJL, and SWR. In addition, reports indicate that Vbeta11+ T cells are eliminated in mice bearing the MHC Class II I-E molecule. Finally, V beta 11+CD4+ T cells have been associated with graft-versus-host disease (GVHD) severity.

The RR3-15 antibody has been reported to activate V beta 11+ T cells.

Applications Reported

The RR3-15 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The RR3-15 antibody has been tested by flow cytometric analysis of mouse lymph node. 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 10⁵ to 10⁸ 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

Domingues HS, Mues M, Lassmann H, Wekerle H, Krishnamoorthy G. Functional and pathogenic differences of Th1 and Th17 cells in experimental autoimmune encephalomyelitis. PLoS One. 2010 Nov 29;5(11):e15531. (RR3-15, FC)

DiRienzo CG, Murphy GF, Friedman TM, Korngold R. T-cell receptor V(alpha) usage by effector CD4+Vbeta11+ T cells mediating graft-versus-host disease directed to minor histocompatibility antigens. Biol Blood Marrow Transplant. 2007 Mar;13(3):265-76.

Bill J, Kanagawa O, Woodland DL, Palmer E. The MHC molecule I-E is necessary but not sufficient for the clonal deletion of V beta 11-bearing T cells. J Exp Med. 1989 Apr 1;169(4):1405-19. (RR3-15)

Related Products

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

46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710

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