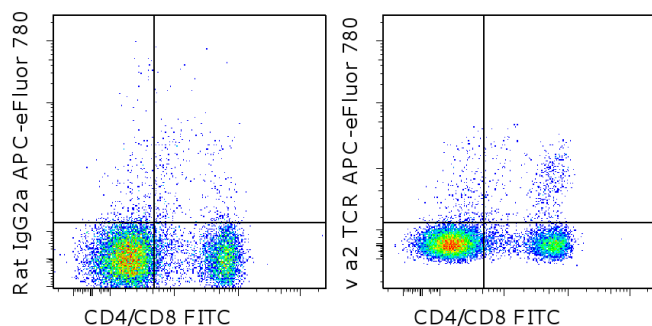


Anti-Mouse V alpha 2 TCR APC-eFluor® 780

Catalog Number: 47-5812

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



Staining of BALB/c splenocytes with Anti-Mouse CD4 and CD8 FITC (cat. 11-0042 and 11-0081, respectively) and 0.125 ug of Rat IgG2a K Isotype Control APC-eFluor® 780 (cat. 47-4321) (left) or 0.125 ug of Anti-Mouse V alpha 2 TCR APC-eFluor® 780 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse V alpha 2 TCR APC-eFluor® 780

Catalog Number: 47-5812

Clone: B20.1

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a

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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

The B20.1 monoclonal antibody reacts with mouse T-cell receptor (TCR) V alpha 2 chains. This antibody recognizes the majority of the TCR V alpha 2 subfamily in mice carrying the a, b and c haplotypes. The antibody also reacts with the products of T cell receptor, V delta 8 due to the high degree of homology.

Applications Reported

This B20.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This B20.1 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.

APC-eFluor® emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: Tandem is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

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Pircher H, Rebaï N, Groettrup M, Grégoire C, Speiser DE, Happ MP, Palmer E, Zinkernagel RM, Hengartner H, Malissen B. Preferential positive selection of V alpha 2+ CD8+ T cells in mouse strains expressing both H-2k and T cell receptor V alpha a haplotypes: determination with a V alpha 2-specific monoclonal antibody. Eur J Immunol. 1992 Feb;22(2):399-404.

Grégoire C, Rebaï N, Schweisguth F, Necker A, Mazza G, Auphan N, Millward A, Schmitt-Verhulst AM, Malissen B. Engineered secreted T-cell receptor alpha beta heterodimers. Proc Natl Acad Sci U S A. 1991 Sep 15;88(18):8077-81.

Related Products

11-0042 Anti-Mouse CD4 FITC (RM4-5)

11-0081 Anti-Mouse CD8a FITC (53-6.7)

47-4321 Rat IgG2a K Isotype Control APC-eFluor® 780 (eBR2a)