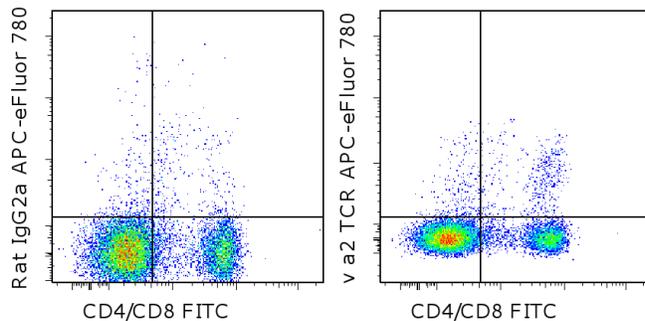


## Anti-Mouse V alpha 2 TCR APC-eFluor<sup>®</sup> 780

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<sup>®</sup> 780 (cat. 47-4321) (left) or 0.125 ug of Anti-Mouse V alpha 2 TCR APC-eFluor<sup>®</sup> 780 (right). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse V alpha 2 TCR APC-eFluor<sup>®</sup> 780

**REF** **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.



**LOT**



**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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

**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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Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •  
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## Anti-Mouse V alpha 2 TCR APC-eFluor® 780

**Catalog Number:** 47-5812

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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)

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