

TCR V alpha 2 Monoclonal Antibody (B20.1), APC-eFluor™ 780, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, lambda
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	B20.1
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11041384

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	3 Publications

Product Specific Information

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 780 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: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

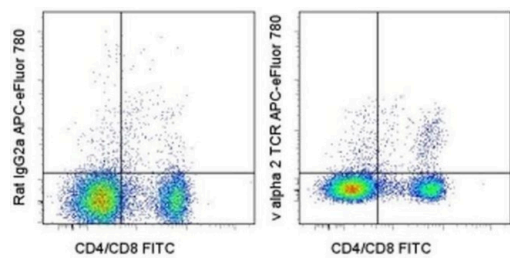
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore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

performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For TCR V alpha 2 Monoclonal Antibody (B20.1), APC-eFluor™ 780, eBioscience™



TCR V alpha 2 Antibody (47-5812-80) in Flow
Staining of BALB/c splenocytes with Anti-Mouse CD4 and CD8 FITC (Product # 11-0042-82 and Product # 11-0081-82, respectively) and 0.125 µg of Rat IgG2a K Isotype Control APC-eFluor® 780 (Product # 47-4321-82) (left) or 0.125 µg of Anti-Mouse V alpha 2 TCR APC-eFluor® 780 (right). Total viable cells were used for analysis.

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3 References

Flow Cytometry (3)

<p>Cell reports</p> <p>Repeated Antigen Exposure Extends the Durability of Influenza-Specific Lung-Resident Memory CD8⁺ T Cells and Heterosubtypic Immunity.</p> <p>"47-5812 was used in Flow cytometry/Cell sorting to demonstrate that, relative to single virus exposure, repeated antigen exposure dramatically alters the dynamics of influenza-specific lung-resident primary memory CD8+ T cell populations."</p> <p>Authors: Van Braeckel-Budimir N,Varga SM,Badovinac VP,Harty JT</p>	<p>Year</p> <p>2018</p> <p>Species</p> <p>Mouse</p>
<p>Immunology</p> <p>Macrophages transfer antigens to dendritic cells by releasing exosomes containing dead-cell-associated antigens partially through a ceramide-dependent pathway to enhance CD4(+) T-cell responses.</p> <p>"Published figure using TCR V alpha 2 monoclonal antibody (Product # 47-5812-80) in Flow Cytometry"</p> <p>Authors: Xu Y,Liu Y,Yang C,Kang L,Wang M,Hu J,He H,Song W,Tang H</p>	<p>Year</p> <p>2016</p> <p>Species</p> <p>Mouse</p>

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