



### TCR V alpha 2 Monoclonal Antibody (B20.1), PE, eBioscience™

<b>Product Details</b>	
Size	100 μg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, lambda
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	B20.1
Conjugate	PE
Excitation/Emission Max	565/576 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_465949

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 μg/test	19 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

#### **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.

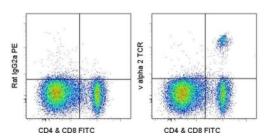
Applications Reported: This B20.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This B20.1 antibody has been tested by flow cytometric analysis of mouse lymph node cells. This can be used at less than or equal to 0.5 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 to preblock Fc receptors for 10 minutes using 0.5 µg of purified anti-mouse CD16/32 (cat. 14-0161). It is also recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

### Product Images For TCR V alpha 2 Monoclonal Antibody (B20.1), PE, eBioscience™



### TCR V alpha 2 Antibody (12-5812-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse CD4 FITC (Product # 11-0042-82) and Anti-Mouse CD8a FITC (Product # 11-0081-82) and 0.25 µg of Rat IgG2a K Isotype Control PE (Product # 12-4321-80) (left) or 0.25 µg of Anti-Mouse V alpha 2 TCR PE (right). Total viable cells were used for analysis.

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### □ 20 References

### Flow Cytometry (19)

Nature

### Clonally expanded CD8 T cells characterize amyotrophic lateral sclerosis-4.

"12-5812-82 was used in Flow cytometry/Cell sorting to provide evidence of an antigen-specific CD8 T cell response in ALS4, which could be used to unravel disease mechanisms and as a potential biomarker of disease state."

Authors: Campisi L,Chizari S,Ho JSY,Gromova A,Arnold FJ,Mosca L,Mei X,Fstkchyan Y,Torre D,Beharry C,Garcia-Forn M,Jiménez-Alcázar M,Korobeynikov VA,Prazich J,Fayad ZA,Seldin MM,De Rubeis S,Bennett CL,Ostrow LW, Lunetta C,Squatrito M,Byun M,Shneider NA,Jiang N,La Spada AR,Marazzi I

**Year** 2022

Species Mouse

Dilution 1:200

#### Frontiers in immunology

# Expression of the Phosphatase Ppef2 Controls Survival and Function of CD8<sup>+</sup> Dendritic Cells.

"12-5812-82 was used in Flow Cytometry to suggest that Ppef2 is crucial to support survival of immature CD8+ DCs, while Ppef2 down-regulation during DC-maturation limits T cell responses."

Authors: Zwick M,Ulas T,Cho YL,Ried C,Grosse L,Simon C,Bernhard C,Busch DH,Schultze JL,Buchholz VR,Stutte S, Brocker T

**Year** 2020

Species Mouse

View more Flow references on thermofisher com

### Miscellaneous PubMed (1)

Journal of immunology (Baltimore, Md.: 1950)

## Low-Affinity Memory CD8+ T Cells Mediate Robust Heterologous Immunity.

"12-5812 was used in Binding experiments to investigate the impact of TCR-priming affinity on memory T cell populations following a graft rechallenge."

Authors: Krummey SM, Martinez RJ, Andargachew R, Liu D, Wagener M, Kohlmeier JE, Evavold BD, Larsen CP, Ford ML CP, Martinez RJ, Andargachew R, Liu D, Wagener M, Kohlmeier JE, Evavold BD, Larsen CP, Ford ML CP, Martinez RJ, Andargachew R, Liu D, Wagener M, Kohlmeier JE, Evavold BD, Larsen CP, Ford ML CP, Martinez RJ, Andargachew R, Liu D, Wagener M, Kohlmeier JE, Evavold BD, Larsen CP, Ford ML CP, Martinez RJ, Marti

**Year** 2016

Species Mouse

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