

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

Product Details

Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, lambda
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	B20.1
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466688

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	6 Publications
Immunoprecipitation (IP)	Assay-Dependent	-

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 and immunoprecipitation.

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 0.125 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 to preblock Fc receptors for 10 minutes using 0.5 µg of purified anti-mouse CD16/32 (Product # 14-0161-85). It is also recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Immunocytochemistry (1)

Oncoimmunology	Year 2016
Biphasic function of TLR3 adjuvant on tumor and spleen dendritic cells promotes tumor T cell infiltration and regression in a vaccine therapy.	
"Published figure using TCR V alpha 2 monoclonal antibody (Product # 13-5812-82) in Immunofluorescence"	
Authors: Azuma M,Takeda Y,Nakajima H,Sugiyama H,Ebihara T,Oshiumi H,Matsumoto M,Seiya T	

Flow Cytometry (6)

The Journal of allergy and clinical immunology	Year 2019
Engulfment of mast cell secretory granules on skin inflammation boosts dendritic cell migration and priming efficiency.	Species Mouse
"13-5812 was used in Flow cytometry/Cell sorting to show peripheral mast cells can modify dendritic cell functionality to influence lymphoid tissue-borne adaptive immunity."	
Authors: Dudeck J,Froebel J,Kotrba J,Lehmann CHK,Dudziak D,Speier S,Nedospasov SA,Schraven B,Dudeck A	

Immunity	Year 2018
Critical Role for the Microbiota in CX₃CR1⁺ Intestinal Mononuclear Phagocyte Regulation of Intestinal T Cell Responses.	Species Mouse
"13-5812 was used in Flow cytometry/Cell sorting to identify a cellular mechanism by which the microbiota limits intestinal inflammation and promotes tissue homeostasis."	
Authors: Kim M,Galan C,Hill AA,Wu WJ,Fehlner-Peach H,Song HW,Schady D,Bettini ML,Simpson KW,Longman RS,Littman DR,Diehl GE	

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