

TCR beta Monoclonal Antibody (H57-597), PerCP-Cyanine5.5, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PerCP-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	H57-597
Conjugate	PerCP-Cyanine5.5
Excitation/Emission Max	489/679 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_925763

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	62 Publications

Product Specific Information

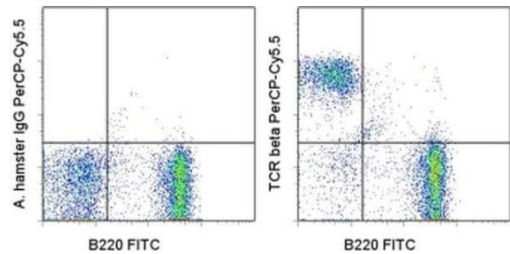
Description: The H57-597 monoclonal antibody reacts with the beta chain of mouse TCR. TCR beta is expressed by thymocytes in a developmentally regulated manner and a majority of peripheral T cells. Crosslinking of the TCR complex with H57-597 induces activation and proliferation of T cells or apoptosis based on assay conditions. H57-597 is used as a phenotypic marker for TCR beta expressing T cells.

Applications Reported: This H57-597 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This H57-597 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.



TCR beta Antibody (45-5961-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.125 µg of Armenian Hamster IgG Isotype Control PerCP-Cyanine5-5 (Product # 45-4888-80) (left) or 0.125 µg of Anti-Mouse TCR beta PerCP-Cyanine5-5 (right). Total viable cells were used for analysis.

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62 References

Flow Cytometry (62)

<p>Molecular cancer therapeutics</p> <p>Abdominopelvic FLASH Irradiation Improves PD-1 Immune Checkpoint Inhibition in Preclinical Models of Ovarian Cancer.</p> <p>"45-5961-82 was used in Flow cytometry/Cell sorting to highlight the potential for FLASH irradiation to improve the therapeutic efficacy of checkpoint inhibition in the treatment of ovarian cancer."</p> <p>Authors: Eggold JT,Chow S,Melemenidis S,Wang J,Natarajan S,Loo PE,Manjappa R,Viswanathan V,Kidd EA,Engleman E,Dorigo O,Loo BW,Rankin EB</p>	<p>Year 2022</p> <p>Species Mouse</p>
<p>Immunity</p> <p>Pannexin 1 channels facilitate communication between T cells to restrict the severity of airway inflammation.</p> <p>"45-5961-82 was used in Flow cytometry/Cell sorting to uncover an immunoregulatory role for the nucleotide release channel, Panx1, in T cell crosstalk during airway disease."</p> <p>Authors: Medina CB,Chiu YH,Stremaska ME,Lucas CD,Poon I,Tung KS,Elliott MR,Desai B,Lorenz UM,Bayliss DA,Ravichandran KS</p>	<p>Year 2021</p> <p>Species Mouse</p>

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