

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Fish, Mouse, Human
Host/Isotope	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
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_925763

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.25 µg/test	37 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.

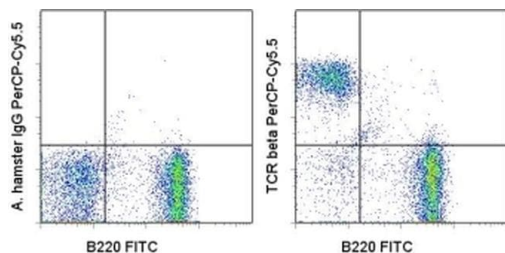
Applications Reported: This H57-597 antibody has been reported for use in flow cytometric analysis.

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 10⁵ to 10⁸ 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.

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



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.

[View more figures on thermofisher.com](#)

37 References

Flow Cytometry (37)

Frontiers in immunology

1810011o10 Rik Inhibits the Antitumor Effect of Intratumoral CD8⁺ T Cells through Suppression of Notch2 Pathway in a Murine Hepatocellular Carcinoma Model.

"Published figure using TCR beta monoclonal antibody (Product # 45-5961-82) in Flow Cytometry"

Authors: Dai K,Huang L,Huang YB,Chen ZB,Yang LH,Jiang YA

Species

Mouse
Not Applicable

Dilution

Not Cited
Not Cited

Year

2018

eLife

Differential requirement of kindlin-3 for T cell progenitor homing to the non-vascularized and vascularized thymus.

"Published figure using TCR beta monoclonal antibody (Product # 45-5961-82) in Flow Cytometry"

Authors: Moretti FA,Klapproth S,Ruppert R,Margraf A,Weber J,Pick R,Scheiermann C,Sperandio M,Fässler R,Moser M

Species

Not Applicable

Dilution

Not Cited

Year

2018

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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