TCR beta Monoclonal Antibody (H57-597), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	H57-597
Conjugate	FITC
Excitation/Emission Max	498/517 nm
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_465323

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	82 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

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.

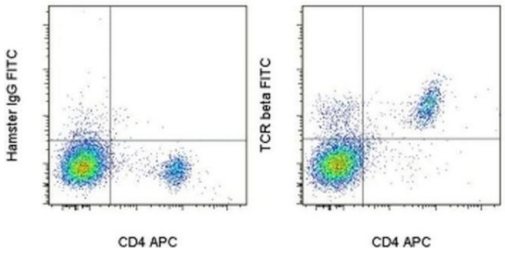
Applications Reported: The H57-597 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The H57-597 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. 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 that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For TCR beta Monoclonal Antibody (H57-597), FITC, eBioscience™



TCR beta Antibody (11-5961-82) in Flow
Staining of BALB/c splenocytes with Anti-Mouse CD4 APC (Product # 17-0041-82) and 0.25 µg of Armenian Hamster IgG Isotype Control FITC (Product # 11-4888-81) (left) or 0.25 µg of Anti-Mouse TCR beta FITC (right). Total viable cells were used for analysis.

View more figures on thermofisher.cn

85 References

Western Blot (1)

Cell death & disease

Overexpression of Uromodulin-like1 accelerates follicle depletion and subsequent ovarian degeneration.

"Published figure using TCR beta monoclonal antibody (Product # 11-5961-82) in Immunofluorescence"

Authors: Wang W,Tang Y,Ni L,Kim E,Jongwutiwes T,Hourvitz A,Zhang R,Xiong H,Liu HC,Rosenwaks Z

Year
2012

Species
Mouse

Immunohistochemistry (1)

Cell death & disease

Overexpression of Uromodulin-like1 accelerates follicle depletion and subsequent ovarian degeneration.

"Published figure using TCR beta monoclonal antibody (Product # 11-5961-82) in Immunofluorescence"

Authors: Wang W,Tang Y,Ni L,Kim E,Jongwutiwes T,Hourvitz A,Zhang R,Xiong H,Liu HC,Rosenwaks Z

Year
2012

Species
Mouse

Flow Cytometry (82)

Frontiers in immunology

P140 Peptide Leads to Clearance of Autoreactive Lymphocytes and Normalizes Immune Response in Lupus-Prone Mice.

"11-5961-82 was used in Flow cytometry/Cell sorting to suggest that P140 belongs to a new family of non-immunosuppressive immunoregulators that do not correct T and B cell abnormalities but rather contribute to the clearance of deleterious T and B cells."

Authors: Schall N,Talamini L,Wilhelm M,Jouvin-Marche E,Muller S

Year
2022

Species
Mouse

European journal of immunology

Peptidylprolyl isomerase C (Ppic) regulates invariant Natural Killer T cell (iNKT) differentiation in mice.

"11-5961-82 was used in Flow Cytometry to show that Ppic is dispensable for myeloid cells, platelets, erythrocytes, and T lymphocytes in vivo in the steady state, while being involved in B and iNKT cell differentiation."

Authors: Paiva RS,Ramos CV,Azenha SR,Alves C,Basto AP,Graca L,Martins VC

Year
2021

Species
Mouse

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

Misc (1)