TCR beta Monoclonal Antibody (H57-597), APC, 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), APC, eBioscience™ |
| Class | Monoclonal |
| Туре | Antibody |
| Clone | H57-597 |
| Conjugate | APC |
| Excitation/Emission Max | 651/660 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_469481 |
| | |

| Applications | Tested Dilution | Publications |
|--|-----------------|-----------------|
| Immunohistochemistry (PFA fixed) (IHC (PFA)) | - | 1 Publication |
| Flow Cytometry (Flow) | 0.125 µg/test | 87 Publications |
| ELISA (ELISA) | - | 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.

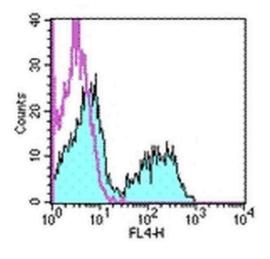
Applications Tested: The H57-597 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.125 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number 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: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



TCR beta Antibody (17-5961-82) in Flow

Staining of C57BL/6 splenocytes with staining buffer (autofluorescence) (open histogram) or 0.06 µg of Anti-Mouse TCR beta APC (filled histogram). Total viable cells were used for analysis.

View more figures on thermofisher.cn

89 References

Immunohistochemistry (PFA fixed) (1)

| Journal of immunology (Baltimore, Md. : 1950) | Year 2015 | |
|--|---------------------|--|
| Phenotypic and Morphological Properties of Germinal Center Dark Zone | | |
| Cxcl12-Expressing Reticular Cells. | | |
| "17-5961-82 was used in Immunohistochemistry (PFA fixed) to characterise the properties of the stromal cells supporting B cells in the germinal centre dark zone." | Mouse | |
| Authors: Rodda LB,Bannard O,Ludewig B,Nagasawa T,Cyster JG | | |

Flow Cytometry (87)

ELISA (1)

| ^{eLife} Meningeal lymphatic drainage promotes T cell responses against <i>Toxoplasma gondii</i> but is dispensable for parasite control in the brain. | Year 2022 Species Mouse Dilution 1:200 |
|--|---|
| "17-5961-82 was used in Flow cytometry/Cell sorting to reveal that CNS lymphatic drainage supports the development of peripheral T cell responses against T. gondii but remains dispensable for immune protection of the brain." Authors: Kovacs MA,Cowan MN,Babcock IW,Sibley LA,Still K,Batista SJ,Labuzan SA,Sethi I,Harris TH | |
| Immunity A nonredundant role for T cell-derived interleukin 22 in antibacterial defense of colonic crypts. | Year 2022 Species |
| "17-5961-82 was used in Flow cytometry/Cell sorting to demonstrate spatiotemporal differences in the production and action of IL-22 by ILCs and T cells during infection and reveal an indispensable role for IL-22-producing T cells in the protection of the intestinal crypts." | Mouse |

View more Flow references on thermofisher.cn

| Journal of immunology (Baltimore, Md. : 1950) | Year 2016 | |
|---|------------------|--|
| Type I IFN Does Not Promote Susceptibility to Foodborne Listeria | | |
| monocytogenes. | Species | |
| "17-5961 was used in an ELISA assay to investigate whether type I IFN promotes susceptibility to foodborne Listeria monocytogenes." | Mouse | |
| Authors: Pitts MG,Myers-Morales T,D'Orazio SE | | |

More applications with references on thermofisher.cn

Authors: Zindl CL,Witte SJ,Laufer VA,Gao M,Yue Z,Janowski KM,Cai B,Frey BF,Silberger DJ,Harbour SN,Singer JR,

Turner H,Lund FE,Vallance BA,Rosenberg AF,Schoeb TR,Chen JY,Hatton RD,Weaver CT

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