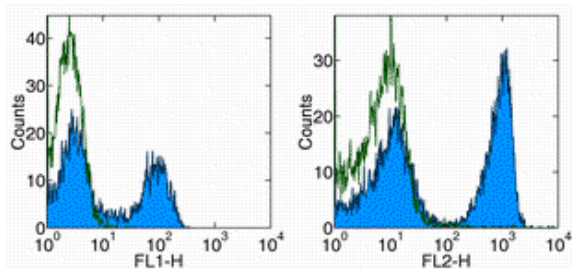


## Anti-Mouse TCR beta Functional Grade Purified

**Catalog Number:** 16-5961

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of mouse splenocytes with Anti-Mouse TCR beta FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse TCR beta Functional Grade Purified

**REF** **Catalog Number:** 16-5961

**Clone:** H57-597

**Concentration:** 1 mg/mL

**Host/Isotype:** Armenian Hamster IgG

**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

### 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. The H57-597 monoclonal antibody has also been reported for cross-linking the T cell receptor (TCR) resulting in T cell activation, and for *in vitro* depletion.

### Applications Tested

The H57-597 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions. 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Kubo RT, Born W, Kappler JW, Marrack P, Pigeon M. Characterization of a monoclonal antibody which detects all murine alpha beta T cell receptors. J Immunol. 1989 Apr 15;142(8):2736-42.

### Related Products

11-4111 Anti-Armenian Hamster IgG FITC

16-4888 Armenian Hamster IgG Isotype Control Functional Grade Purified (eBio299Arm)

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