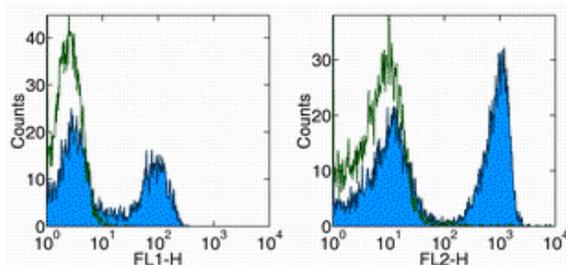


Anti-Mouse TCR beta Functional Grade Purified

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 10⁵ to 10⁸ 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)

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com