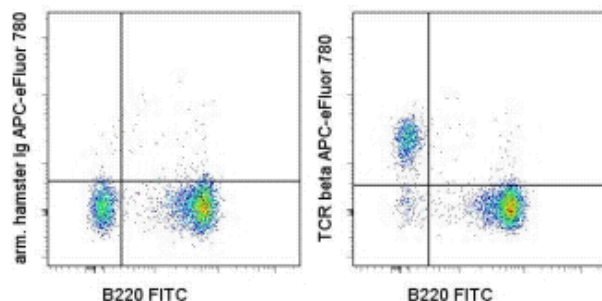


## Anti-Mouse TCR beta APC-eFluor® 780

Catalog Number: 47-5961

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



Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.5 ug of Armenian Hamster IgG Isotype Control APC-eFluor® 780 (cat. 47-4888) (left) or 0.5 ug of Anti-Mouse TCR beta APC-eFluor® 780 (right). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse TCR beta APC-eFluor® 780

**REF** **Catalog Number:** 47-5961

**Clone:** H57-597

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Armenian Hamster IgG

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



**LOT**

**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Contains sodium azide**

### 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 1 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.

**APC-eFluor® emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.**

**Light sensitivity:** Tandem is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

### 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

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)

47-4888 Armenian Hamster IgG Isotype Control APC-eFluor® 780 (eBio299Arm)

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