

PE/Cyanine7 anti-Mouse TCR β chain mAb

Catalog No.: A27382

Basic Information

Observed MW**Calculated MW**

13kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Mouse

CloneNo number

ACC0009

Conjugate

PE-Cy7. Ex:565nm. Em:778nm.

Recommended Dilutions

FC 5 μ l per 10^6 cells in
100 μ l volume

Background

T cell receptors recognize foreign antigens which have been processed as small peptides and bound to major histocompatibility complex (MHC) molecules at the surface of antigen presenting cells (APC). Each T cell receptor is a dimer consisting of one alpha and one beta chain or one delta and one gamma chain. In a single cell, the T cell receptor loci are rearranged and expressed in the order delta, gamma, beta, and alpha. If both delta and gamma rearrangements produce functional chains, the cell expresses delta and gamma. If not, the cell proceeds to rearrange the beta and alpha loci. This region represents the germline organization of the T cell receptor beta locus. The beta locus includes V (variable), J (joining), diversity (D), and C (constant) segments. During T cell development, the beta chain is synthesized by a recombination event at the DNA level joining a D segment with a J segment; a V segment is then joined to the D-J gene. The C segment is later joined by splicing at the RNA level. Recombination of many different V segments with several J segments provides a wide range of antigen recognition. Additional diversity is attained by junctional diversity, resulting from the random addition of nucleotides by terminal deoxynucleotidyltransferase. Several V segments of the beta locus are known to be incapable of encoding a protein and are considered pseudogenes. The beta locus also includes several trypsinogen genes.

Immunogen Information

Gene ID

21577

Swiss Prot

A0A0B4J1G9

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

Tib; TCRbeta

Contact

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Product Information

Source

Armenian Hamster

Isotype

Armenian hamster / IgG

Purification

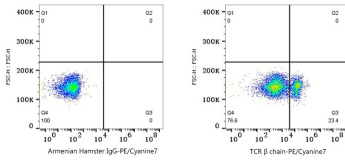
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 C57BL/6 mouse splenocytes were surface-stained with PE/Cyanine7 Armenian Hamster IgG (5 μ l/Test, left) or PE/Cyanine7 anti-Mouse TCR β chain mAb (A27382, 5 μ l/Test, right).