

# APC-Cy7 anti-Mouse TCR $\beta$ chain mAb

Catalog No.: A28478

## Basic Information

### Observed MW

### Calculated MW

13 kDa

### Category

Primary antibody

### Applications

FC

### Cross-Reactivity

Mouse

### Conjugate

APC-Cy7. Ex:651nm. Em:779nm.

## 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.

## Recommended Dilutions

FC 1  $\mu$ g per million cells in  
100  $\mu$ l volume

## Immunogen Information

### Gene ID

21577

### Swiss Prot

A0A0B4J1G9

### Immunogen

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 and BSA ,pH7.2.