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FITC anti-Mouse TCR γ/δ mAb

Catalog No.: A25673

Basic Information

Observed MW
Refer to figures

Calculated MW

Category
Primary antibody

Applications
FC

Cross-Reactivity
Mouse

CloneNo number
ACC0007

Conjugate
FITC. Ex:491nm. Em:516nm.

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 alpha and delta loci. Both the alpha and delta loci include V (variable), J (joining), and C (constant) segments and the delta locus also includes diversity (D) segments. The delta locus is situated within the alpha locus, between the alpha variable and joining genes. During T cell development, the delta 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 alpha chain is synthesized by recombination joining a single V segment with a J segment. For both chains, 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 additional of nucleotides by terminal deoxynucleotidyltransferase. Ten variable segments can be used in either alpha or delta chains and are described by TRAV/DV symbols. Several V and J segments of the alpha locus are known to be incapable of encoding a protein and are considered pseudogenes.

Recommended Dilutions

FC	The suggested use of this reagent is ≤0.25 μg per 10^6 cells in 100 μl volume.

Immunogen Information

Gene ID
110066/110067

Swiss Prot

Immunogen
This information is considered to be commercially sensitive.

Synonyms
Tcrdelta;TCRGV1S1; TCRGV2S1; TCRGV3S1; TCRGV5S3

Contact

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Product Information

Source
Armenian Hamster

Isotype
Armenian hamster / IgG

Purification
Affinity purification

Storage
Store at 4℃. Avoid freeze / thaw cycles.
Buffer:Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide