

For Research Use Only

# Anti-Mouse TCR beta (H57-597) Armenian Hamster IgG2a Recombinant Antibody

Catalog Number: 65678-1-AR



## Basic Information

Catalog Number:

65678-1-AR

Size:

100ug, 1000 µg/ml

Source:

Armenian Hamster

Isotype:

IgG2a

GenBank Accession Number:

GeneID (NCBI):

21577

Full Name:

T-cell receptor beta chain

Purification Method:

Protein A purification

CloneNo.:

H57-597

Recommended Dilutions:

FC: 0.5 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : mouse splenocytes,

## Background Information

T-cell receptor (TCR) consists of heterodimeric glycoproteins (TCR alpha/beta or gamma/delta) that demonstrate homology with immunoglobulins (PMID: 2144901). TCR beta is a member of the immunoglobulin superfamily and is expressed on alpha/beta TCR-bearing T cells and thymocytes. The TCR heterodimers are noncovalently associated with CD3. The TCR/CD3 complex of T-lymphocytes consists of either a TCR alpha/beta or TCR gamma/delta heterodimer coexpressed at the cell surface with the invariant subunits of CD3 labeled gamma, delta, epsilon, zeta, and eta (PMID: 1826255). The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCR-mediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction (PMID: 11985657).

## Storage

Storage:

Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

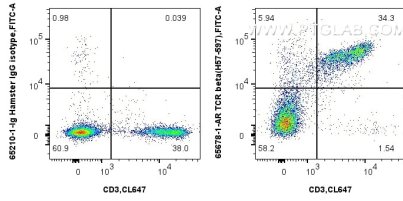
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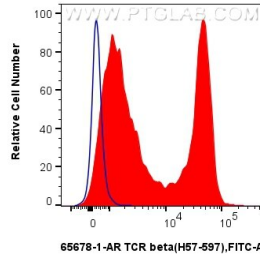
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## Selected Validation Data



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.5 ug Anti-Mouse TCR beta Hamster IgG2a RecAb (65678-1-AR, Clone: H57-597) or Armenian Hamster IgG Isotype Control (PIP) (65210-1-Ig, Clone: PIP), and FITC-conjugated Anti-Armenian Hamster IgG antibody. Cells were co-stained with CoraLite® Plus 647 Anti-Mouse CD3. Cells were not fixed.



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.5 ug Anti-Mouse TCR beta Hamster IgG2a RecAb (65678-1-AR, Clone: H57-597) (red) or Armenian Hamster IgG Isotype Control (PIP) (65210-1-Ig, Clone: PIP) (blue), and FITC-conjugated Anti-Armenian Hamster IgG antibody. Cells were not fixed.