

For Research Use Only

# CoraLite® Plus 647 Anti-Mouse TCR beta (H57-597) Armenian Hamster Recombinant Antibody

Catalog Number: CL647-65678



## Basic Information

Catalog Number:

CL647-65678

Concentration:

100ug, 500 ug/ml

Source:

Armenian Hamster

Isotype:

IgG2a

GenBank Accession Number:

GeneID (NCBI):

21577

Full Name:

T-cell receptor beta chain

Purification Method:

Protein A&G purification

CloneNo.:

H57-597

Recommended Dilutions:

FC: 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## 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. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:

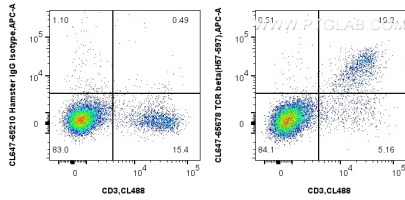
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

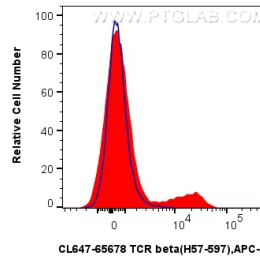
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## Selected Validation Data



1x10<sup>6</sup> mouse splenocytes were surface stained with CoraLite® Plus 488 Anti-Mouse CD3, and 0.25 ug CoraLite® Plus 647 Anti-Mouse TCR beta (H57-597) Armenian Hamster IgG2a RecAb (CL647-65678, Clone: H57-597) or CoraLite® Plus 647 Armenian Hamster IgG Isotype Control (PIP) (CL647-65210, Clone: PIP). Cells were not fixed.



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.25 ug CoraLite® Plus 647 Anti-Mouse TCR beta (H57-597) Armenian Hamster IgG2a RecAb (CL647-65678, Clone: H57-597) (red) or CoraLite® Plus 647 Armenian Hamster IgG Isotype Control (PIP) (CL647-65210, Clone: PIP) (blue). Cells were not fixed.