For Research Use Only

CoraLite® Plus 488 Anti-Mouse TCR Beta (H57-597)

Catalog Number:CL488-65106

Basic Information

Catalog Number:
CL488-65106

Size:
100ug , 0.5 mg/ml

Source:
Armenian Hamster

Isotype:
IgG

GenBank Accession Number:

GeneID (NCBI):
21577

Full Name:
T-cell receptor beta chain

Purification Method:
Affinity purification

CloneNo.:
H57-597

Recommended Dilutions:
IF 1:150-1:600

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
FC, IF

Species Specificity:
Mouse

Positive Controls:

IF : mouse splenocytes,

Background Information

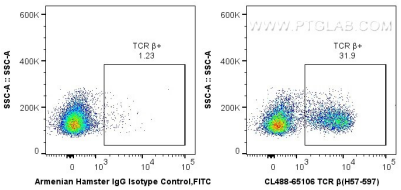
T-cell receptor (TCR) consists of heterodimeric glycoproteins (TCR alpha/beta or gamma/delta) that demonstrate homology with immunoglobulins (PMID: 2144901). TCR beta is a member of the immunoglobulin superfamily and is expressed on alpha/beta TCR-bearing T cells and thymocytes. The TCR heterodimers 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

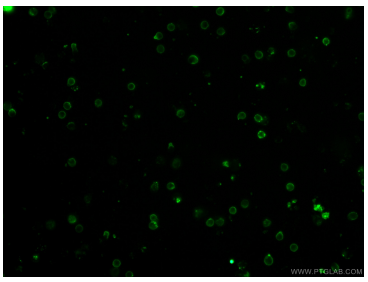
Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data



1X10^6 C57BL/6 mouse splenocytes were surface stained with 0.25 ug CoraLite® Plus 488 Anti-Mouse TCR Beta (CL488-65106, Clone: H57-597) or 0.25 ug CoraLite® Plus 488 Armenian Hamster IgG Isotype Control (PIP) (CL488-65210, Clone: PIP). Cells were not fixed.



Immunofluorescent analysis of mouse splenocytes using CoraLite® Plus 488-conjugated Anti-Mouse TCR beta (CL488-65106, Clone: H57-597) at dilution of 1:300.