

For Research Use Only

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

Catalog Number: CL488-65106

1 Publications



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/ICC 1:150-1:600

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC

Cited Applications:

IF

Species Specificity:

Mouse

Positive Controls:

IF/ICC : 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Jay Pundavela	39413183	Sci Adv	IF

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.

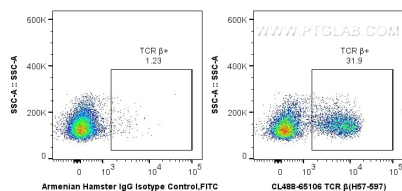
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

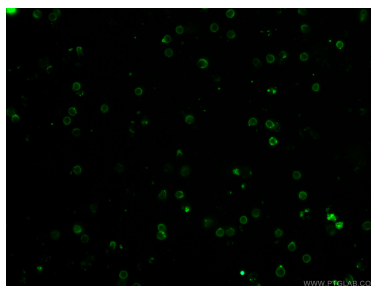
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ 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.