For Research Use Only

CoraLite® Plus 647 Anti-Mouse CD3 (17A2)

Catalog Number:CL647-65077 1 Publications

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL647-65077

Concentration:
100ug, 500 ug/ml

Source:
Rat

Isotype:
IgG2b, kappa

GenBank Accession Number:
BC098236

GeneID (NCBI):
12501

UNIPROT ID:
P22646

Full Name:
CD3 antigen, epsilon polypeptide

Purification Method:
Affinity purification

CloneNo.:
17A2

Recommended Dilutions:
IF/ICC: 1:250-1:1000
FC: 0.5 ug per 10^6 cells in 100 μl suspension

Excitation/Emission maxima wavelengths:
654 nm / 674 nm

Applications

Tested Applications:
IF/ICC, FC

Species Specificity:
mouse

Cited Species:
mouse

Positive Controls:

IF/ICC : mouse splenocytes,

FC : mouse splenocytes,

Background Information

CD3 is a multimeric protein associated with the T-cell receptor (TCR) to form a complex involved in antigen recognition and signal transduction (PMID: 15885124). CD3 is composed of CD3 γ , δ , ε , and ζ chains (PMID: 1826255). It is expressed by thymocytes in a developmentally regulated manner, T cells, and some NK cells (PMID: 3289580). 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
Mengdi Yang	39255734	Biomed Pharmacother	

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 and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:
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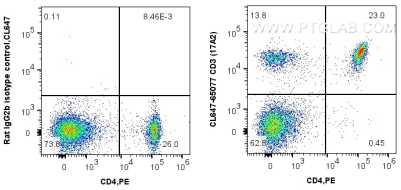
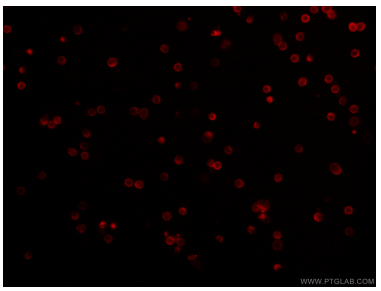
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10^6 C57BL/6 mouse splenocytes were surface co-stained with PE Anti-Mouse CD4 (GK1.5) and 0.5 ug CoraLite® Plus 647 Anti-Mouse CD3 (CL647-65077, Clone:17A2) or 0.5 ug CoraLite® Plus 647 Rat IgG2b Isotype Control (LTF-2) (CL647-65211, Clone: LTF-2). Cells were not fixed.



Immunofluorescent analysis of mouse splenocytes using CoraLite® Plus 647-conjugated Anti-Mouse CD3 (CL647-65077, Clone: 17A2) at dilution of 1:500.