

For Research Use Only

# PE-Cyanine7 Anti-Mouse CD3 (17A2)

Catalog Number: PY7-65077



## Basic Information

Catalog Number:

PY7-65077

Concentration:

100ug, 100  $\mu$ g/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:

FC: 0.2 ug per  $10^6$  cells in 100  $\mu$ l suspension

Excitation/Emission maximum wavelengths:

450-500 nm / 778 nm

## Applications

Tested Applications:

FC

Species Specificity:

Mouse

Positive Controls:

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  $\gamma$ ,  $\delta$ ,  $\epsilon$ , and  $\zeta$  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).

## 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:

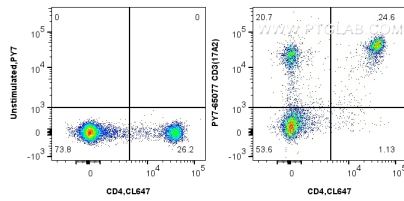
T: 4006900926

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 0.2 ug PE-Cyanine7 Anti-Mouse CD3 (17A2) (PY7-65077, Clone:17A2) or 0.2 ug Isotype Control, and 0.2 ug CoraLite® Plus 647 Anti-Mouse CD4 (GK1.5) (CL647-65104, Clone: GK1.5). Cells were not fixed.