

For Research Use Only

# Biotin Anti-Human CD3 Mouse Recombinant Antibody

Catalog Number: Biotin-98319-2



## Basic Information

Catalog Number:

Biotin-98319-2

Size:

100ug , 500 ug/ml

Source:

Mouse

Isotype:

IgG2a

GenBank Accession Number:

BC049847

GeneID (NCBI):

916

ENSEMBL Gene ID:

ENSG00000198851

UNIPROT ID:

P07766

Full Name:

CD3e molecule, epsilon (CD3-TCR complex)

Calculated MW:

207 aa, 23 kDa

Purification Method:

Protein A purification

CloneNo.:

SP34

Recommended Dilutions:

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

## Applications

Tested Applications:

FC

Species Specificity:

Human, Cynomolgus monkey

Positive Controls:

FC : human PBMCs,

## 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 CD3γ, 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).

## 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:

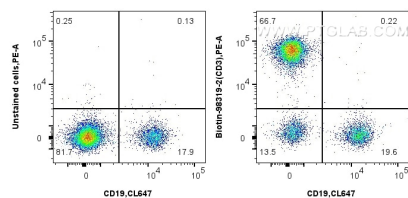
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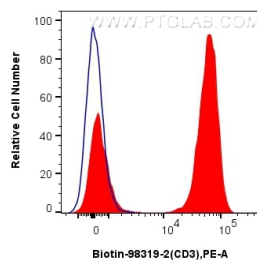
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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Biotin Anti-Human CD3 Mouse RecAb (Biotin-98319-2, Clone: SP34), and Streptavidin-PE Conjugate (PE-PF00030) or unstained cells. Cells were then stained with CoraLite® Plus 647 Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Biotin Anti-Human CD3 Mouse RecAb (Biotin-98319-2, Clone: SP34) (red) or unstained (blue), and Streptavidin-PE Conjugate (PE-PF00030). Cells were not fixed.