

For Research Use Only

# PE-Cyanine7 Anti-Human CD3 (UCHT1)

Catalog Number: PY7-65151



## Basic Information

Catalog Number:

PY7-65151

Size:

100 tests, 5 ul/test

Source:

Mouse

Isotype:

IgG1, kappa

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:

Affinity purification

CloneNo.:

UCHT1

Excitation/Emission maxima wavelengths:

450-500 nm / 778 nm

## Applications

Tested Applications:

FC

Species Specificity:

human

## 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.

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

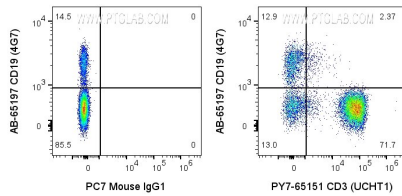
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E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)

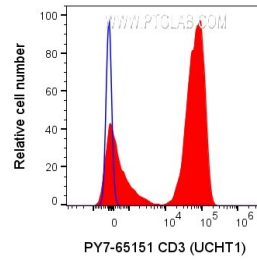
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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with Atlantic Blue™ Anti-Human CD19 (AB-65197), and 5 ul PE-Cyanine7 Anti-Human CD3 (PY7-65151, Clone: UCHT1) or Mouse IgG1 Isotype Control (65124-1-Ig, Clone: MOPC-21). Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul PE-Cyanine7 Anti-Human CD3 (PY7-65151, Clone: UCHT1) or Mouse IgG1 Isotype Control (65124-1-Ig, Clone: MOPC-21). Cells were not fixed. Lymphocytes were gated.