

For Research Use Only

# Cardinal Red™ Anti-Human CD3 (UCHT1)



Catalog Number: **CR-65151**

## Basic Information

<b>Catalog Number:</b> CR-65151	<b>GenBank Accession Number:</b> BC049847	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100tests , 5 µl/test	<b>GeneID (NCBI):</b> 916	<b>CloneNo.:</b> UCHT1
<b>Source:</b> Mouse	<b>Full Name:</b> CD3e molecule, epsilon (CD3-TCR complex)	<b>Excitation/Emission maxima wavelengths:</b> 592 nm / 611 nm
<b>Isotype:</b> IgG1, kappa	<b>Calculated MW:</b> 207 aa, 23 kDa	

## 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 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

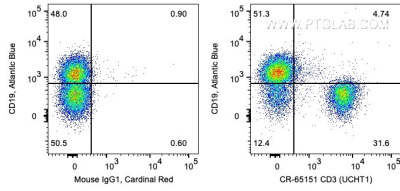
**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA.

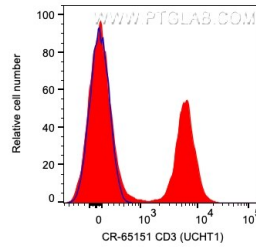
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



1X10<sup>6</sup> human PBMCs were surface co-stained with Atlantic Blue Anti-Human CD19 and 5 ul Cardinal Red™ Anti-Human CD3 (CR-65151, Clone:UCHT1) or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.



1X10<sup>6</sup> human PBMCs were surface stained with 5 ul Cardinal Red™ Anti-Human CD3 (CR-65151, Clone:UCHT1) (red) or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.