

For Research Use Only

# CoraLite® Plus 647 Anti-Human CD3 (UCHT1) Mouse IgG2a Recombinant Antibody



Catalog Number: **CL647-65570**

## Basic Information

<b>Catalog Number:</b> CL647-65570	<b>GenBank Accession Number:</b> BC049847	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100tests, 5 µl/test	<b>GeneID (NCBI):</b> 916	<b>CloneNo.:</b> UCHT1
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000198851	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Isotype:</b> IgG2a	<b>Full Name:</b> CD3e molecule, epsilon (CD3-TCR complex)	
	<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 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:

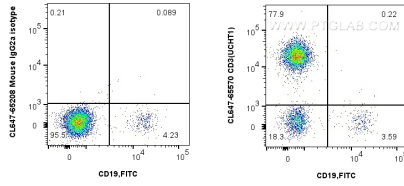
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with FITC Plus Anti-Human CD19 and 5 ul Coralite® Plus 647 CD3 Recombinant Antibody (CL647-65570, Clone: UCHT1) or CoraLite® Plus 647 Mouse IgG2a Isotype Control (C1.18.4) (CL647-65208, Clone: C1.18.4). Cells were not fixed. Lymphocytes were gated.