For Research Use Only

## CoraLite® Plus 555 Anti-Human CD3 (UCHT1)

www.ptglab.com

Catalog Number: CL555-65151

**Basic Information** 

Catalog Number: CL555-65151 Concentration:

100tests, 5 ul/test Source: Mouse Isotype: IgG1, kappa

Calculated MW: 207 aa, 23 kDa

GenBank Accession Number:

CD3e molecule, epsilon (CD3-TCR

BC049847

916

GeneID (NCBI):

ENSEMBL Gene ID:

ENSG00000198851

UNIPROT ID:

Full Name:

complex)

P07766

**Purification Method:** Affinity purification

CloneNo.: UCHT1

Recommended Dilutions: IF/ICC: 1:10-1:100

FC: 5 ul per 10^6 cells in 100  $\mu$  l suspension

Excitation/Emission maxima wavelengths: 554 nm / 570 nm

**Applications** 

**Tested Applications:** IF/ICC, FC Species Specificity: human

Positive Controls: IF/ICC: human PBMCs,

FC: human PBMCs,

## **Background Information**

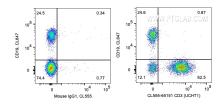
CD3 is a multimeric protein associated with the T-cell receptor (TCR) to form a complex involved in antigen recognition and signal transduction (PMID: 15885124). CD3 is composed of CD3  $\gamma$  ,  $\delta$  ,  $\epsilon$  , and  $\zeta$  chains (PMID:  $\textbf{1826255)}. \ \textbf{It is expressed by thy mocytes in a developmentally regulated manner, T cells, and some NK cells (PMID: PMID: PMI$ 3289580). The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCRmediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction (PMID: 11985657).

Storage

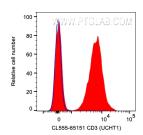
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment. Storage Buffer

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

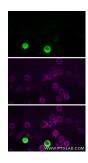
## **Selected Validation Data**



1X10^6 human PBMCs were surface co-stained with CL647 Anti-Human CD19 and 5 ul Coralite® Plus 555 Anti-Human CD3 (CL555-65151, Clone:UCHT1) or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.



1X10^6 human PBMCs were surface stained with 5 ul CoraLite® Plus 555 Anti-Human CD3 (CL555-65151, Clone:UCHT1) (red) or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.



Live human PBMCs were gravity-sedimented and immunostained with anti-CD16 recombinant VHH, FITC Plus (FITC-CD16, green) and anti-CD3 IgG-CL555 (CL555-65151, magenta). Images were acquired with a 20x objective and post-processed. Dead cells (autofluorescent in all channels including UV and far-red) we subtracted from all channels with ImageJ.