For Research Use Only

CoraLite® Plus 555 Anti-Human CD3 (UCHT1)

Catalog Number:CL555-65151

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL555-65151

Size:
100tests , 5 µl/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:
554 nm / 570 nm

Applications

Tested Applications:
IF/ICC, FC

Species Specificity:
human

Background Information

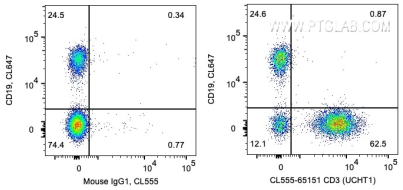
CD3 is a multimeric protein associated with the T-cell receptor (TCR) to form a complex involved in antigen recognition and signal transduction (PMID: 15885124). CD3 is composed of CD3γ , δ, ε, and ζ chains (PMID: 1826255). It is expressed by thymocytes in a developmentally regulated manner, T cells, 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

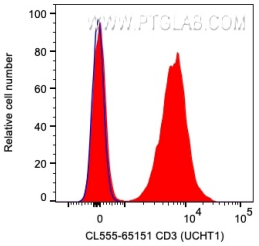
Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide and 0.5% BSA.

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

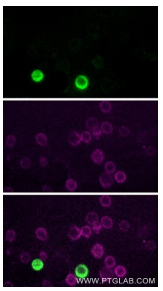
Selected Validation Data



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.