For Research Use Only

Cardinal Red™ Anti-Human CD3 (OKT3)

Catalog Number:CR-65133

proteintech®
Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CR-65133

Size:
100tests , 5 ul/test

Source:
Mouse

Isotype:
IgG2a, 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.:
OKT3

Recommended Dilutions:
FC: 5 ul per 10^6 cells in 100 µl suspension

Excitation/Emission maxima wavelengths:
592 nm / 611 nm

Applications

Tested Applications:
FC

Species Specificity:
Human

Positive Controls:

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 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).

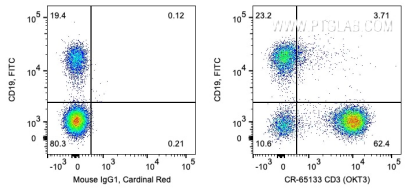
Storage

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, pH7.3

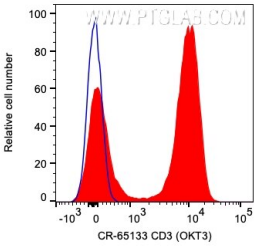
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1X10^6 human PBMCs were surface co-stained with FITC Anti-Human CD19 and 5 ul Cardinal Red™ Anti-Human CD3 (CR-65133, Clone:OKT3) or Mouse IgG2a Isotype Control. Cells were not fixed. Lymphocytes were gated.



1X10^6 human PBMCs were surface stained with 5 ul Cardinal Red™ Anti-Human CD3 (CR-65133, Clone:OKT3) (red) or Mouse IgG2a Isotype Control. Cells were not fixed. Lymphocytes were gated.