

Cardinal Red™ Anti-Human CD3 (OKT3)

Catalog Number: **CR-65133**

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

Excitation/Emission maxima wavelengths:

592 nm / 611 nm

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 γ , 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

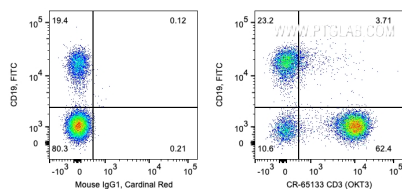
Storage:

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

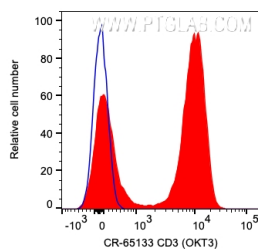
Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA.

Selected Validation Data



1X10⁶ 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.



1X10⁶ 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.