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FITC Plus Anti-Human CD3 (OKT3)

Product Number: ATB0034

Shipping and 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.

Component

Component	ATB0034-25T	ATB0034-100T
FITC Plus Anti-Human CD3 (OKT3)	25T	100T

Description

CD3 is a multimeric protein associated with the T-cell receptor (TCR) to form a complex involved in antigen recognition and signal transduction. 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.

Basic Information

1. Concentration: 100tests, 5μL/test
2. Source: Mouse
3. Isotype: IgG2a, kappa
4. GenBank Accession Number: BC049847
5. GeneID (NCBI):916
6. ENSEMBL Gene ID: ENSG00000198851
7. UNIPROT ID:P07766
8. Full Name: CD3e molecule, epsilon (CD3-TCR complex)
9. Calculated MW: 207 aa, 23 kDa
10. Purification Method: Affinity purification
11. CloneNo.: OKT3
12. Recommended Dilutions: FC: 5μL per 10^6 cells in a 100μL suspension
13. Excitation/Emission maxima wavelengths:495nm / 524nm.

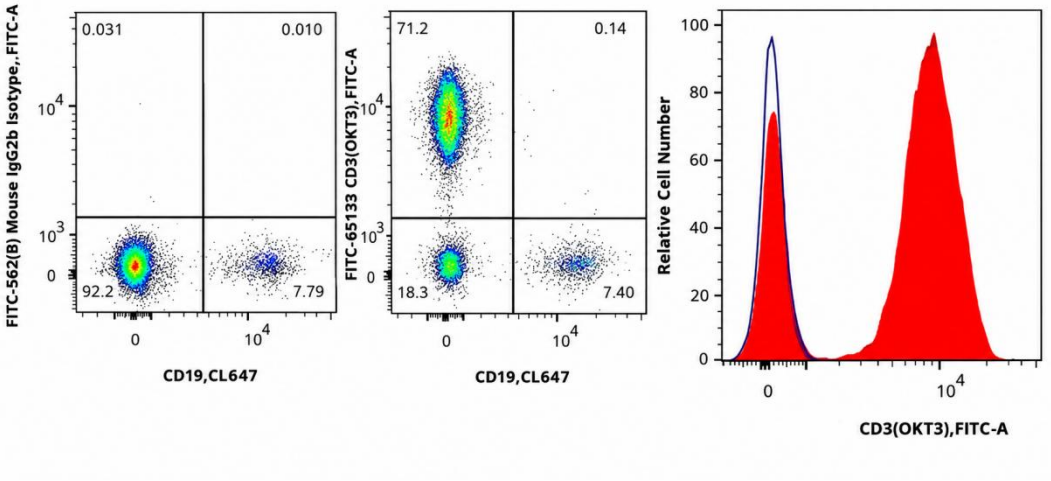
Application

1. Tested Applications: FC
2. Cited Applications: IF, FC
3. Species Specificity: human
4. Cited Species: human
5. Positive Controls: FC : human PBMCs

Selected Validation Data

1x10^6 human PBMCs were surface stained with CoraLite® Plus 647 Anti-Human CD19, and 5μL FITC Plus Anti-Human CD3 (OKT3) or FITC Plus Mouse IgG2a Isotype Control (C1.18.4) .Cells were not fixed. Lymphocytes were gated.

1x10^6 human PBMCs were surface stained with 5μL FITC Plus Anti-Human CD3 (OKT3) (red) or FITC Plus Mouse IgG2a Isotype Control (C1.18.4) (blue). Cells were not fixed. Lymphocytes were gated.


FITC-562(B) Mouse IgG2b Isotype,.FITC-A
0.031
0.010
92.2
7.79
CD19,CL647
FITC-65133 CD3(OKT3),FITC-A
71.2
0.14
18.3
7.40
CD19,CL647
Relative Cell Number
CD3(OKT3),FITC-A