

For Research Use Only

# Biotin Anti-Human CD3 (OKT3) Mouse IgG2a Recombinant Antibody



Catalog Number: Biotin-65569

## Basic Information

<b>Catalog Number:</b> Biotin-65569	<b>GenBank Accession Number:</b> BC049847	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 500 ug/ml	<b>GeneID (NCBI):</b> 916	<b>CloneNo.:</b> OKT3
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000198851	
<b>Isotype:</b> IgG2a	<b>Full Name:</b> CD3e molecule, epsilon (CD3-TCR complex)	
	<b>Calculated MW:</b> 207 aa, 23 kDa	

## 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  $\gamma$ ,  $\delta$ ,  $\epsilon$ , and  $\zeta$  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:

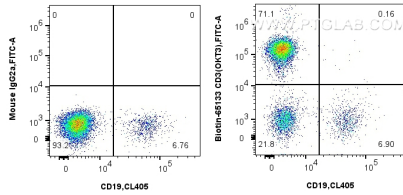
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

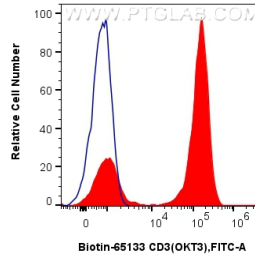
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Biotin CD3 Recombinant Antibody (Biotin-65569, Clone: OKT3) or 0.25 ug Isotype Control, and CoraLite®488-conjugated streptavidin. Cells were then stained with CoraLite® Plus 405 Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Biotin CD3 Recombinant Antibody (Biotin-65569, Clone: OKT3) and CoraLite®488-conjugated streptavidin (red) or 0.25 ug Isotype Control and CoraLite®488-conjugated streptavidin (blue). Cells were not fixed. Lymphocytes were gated.