

For Research Use Only

# Anti-Human CD3 (OKT3)

Catalog Number: 65133-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 65133-1-Ig	<b>GenBank Accession Number:</b> BC049847	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, 0.5 mg/mL	<b>GeneID (NCBI):</b> 916	<b>CloneNo.:</b> OKT3
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000198851	
<b>Isotype:</b> IgG2a, kappa	<b>UNIPROT ID:</b> P07766	
	<b>Full Name:</b> CD3e molecule, epsilon (CD3-TCR complex)	
	<b>Calculated MW:</b> 207 aa, 23 kDa	

## Applications

**Tested Applications:**  
FC

**Cited Applications:**  
IHC, Cell treatment

**Species Specificity:**  
human

**Cited Species:**  
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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenhao Niu	39086477	Front Immunol	IHC
Guiqin Ye	38974523	J Pharm Anal	Cell treatment

## Storage

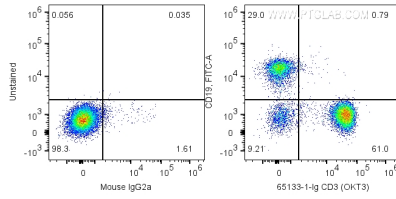
**Storage:**  
Store at 2-8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide.

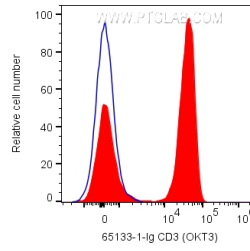
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

## Selected Validation Data



1X10<sup>6</sup> human PBMCs were surface co-stained with FITC Anti-human CD19 and 0.2 ug Anti-Human CD3 (65133-1-Ig, Clone: OKT3) labeled with FlexAble CoraLite® Plus 647 Antibody Labeling Kit for Mouse IgG2a (KFA043) or CoraLite® Plus 647 conjugated Mouse IgG2a Isotype Control. Cells were not fixed. Lymphocytes were gated.



1X10<sup>6</sup> human PBMCs were surface stained with 0.2 ug Anti-Human CD3 (65133-1-Ig, Clone: OKT3) labeled with FlexAble CoraLite® Plus 647 Antibody Labeling Kit for Mouse IgG2a (KFA043) (red) or CoraLite® Plus 647 conjugated Mouse IgG2a Isotype Control. Cells were not fixed. Lymphocytes were gated.