

For Research Use Only

# FITC Anti-Human CD3 (SK7)

Catalog Number: FITC-65148



## Basic Information

<b>Catalog Number:</b> FITC-65148	<b>GenBank Accession Number:</b> BC049847	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100tests, 5 µl/test	<b>GeneID (NCBI):</b> 916	<b>CloneNo.:</b> SK7
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000198851	<b>Excitation/Emission maxima wavelengths:</b> 494 nm / 520 nm
<b>Isotype:</b> IgG1, kappa	<b>UNIPROT ID:</b> P07766	
	<b>Full Name:</b> CD3ε 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:**  
Phosphate based buffer with 0.09% sodium azide and 0.1% gelatin, pH 7.2.

For technical support and original validation data for this product please contact:

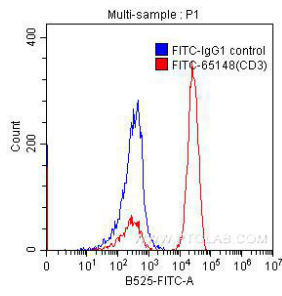
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W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



$1 \times 10^6$  human peripheral blood lymphocytes were surface stained with 1  $\mu$ g FITC-anti-human CD3 (FITC-65148, clone SK7) (red) or 1  $\mu$ g FITC-mouse IgG1 isotype control (blue). Cells were not fixed.