

For Research Use Only

# FcZero-rAb™ PE-CoraLite® Plus 594 Anti-Human CD3 Rabbit Recombinant Antibody

Catalog Number:**PCL594-FcA98319-2**



## Basic Information

Catalog Number:	PCL594-FcA98319-2	GenBank Accession Number:	BC049847	Purification Method:	Protein A purification
Size:	100 tests, 5 $\mu$ l/test	GeneID (NCBI):	916	Clone No.:	SP34
Source:	Rabbit	ENSEMBL Gene ID:	ENSG00000198851	Recommended Dilutions:	FC: 5 $\mu$ l per $10^6$ cells in a 100 $\mu$ l suspension
Isotype:	IgG	Full Name:	CD3e molecule, epsilon (CD3-TCR complex)	Excitation/Emission maxima wavelengths:	496 nm, 565 nm / 604 nm
		Calculated MW:	207 aa, 23 kDa		

## Applications

Tested Applications:	Positive Controls:
FC	FC: human PBMCs,

**Species Specificity:**  
human, monkey, non-human primates

## 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).

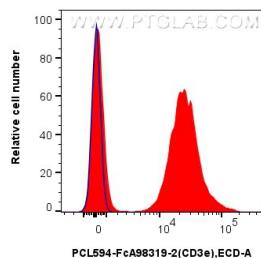
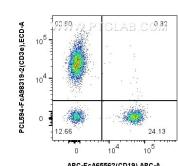
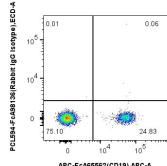
## Storage

**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, pH7.3

For technical support and original validation data for this product please contact:  
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with FcZero-rAb™ APC Anti-Human CD19 and 5 ul PE-Coralite® Plus 594 Anti-Human CD3 Rabbit RecAb (PCL594-FcA98319-2, Clone:SP34), or 5 ul FcZero-rAb™ PE-Coralite® Plus 594 Rabbit IgG Isotype Control Recombinant Antibody (PCL594-FcA98136, Clone: 240953C9). Cells were not fixed. Lymphocytes were gated.

1x10<sup>6</sup> human PBMCs were surface stained with 5 ul PE-Coralite® Plus 594 Anti-Human CD3 Rabbit RecAb (PCL594-FcA98319-2, Clone:SP34) (red), or 5 ul FcZero-rAb™ PE-Coralite® Plus 594 Rabbit IgG Isotype Control Recombinant Antibody (PCL594-FcA98136, Clone: 240953C9) (blue). Cells were not fixed. Lymphocytes were gated.