

For Research Use Only

# CoraLite®594 Anti-Mouse CD3 $\epsilon$ (500-A2)



Catalog Number:CL594-65061

## Basic Information

<b>Catalog Number:</b> CL594-65061	<b>GenBank Accession Number:</b> BC098236	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, 500 $\mu$ g/ml	<b>GeneID (NCBI):</b> 12501	<b>CloneNo.:</b> 500-A2
<b>Source:</b> Hamster	<b>UNIPROT ID:</b> P22646	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Isotype:</b> IgG	<b>Full Name:</b> CD3 antigen, epsilon polypeptide	

## Applications

**Tested Applications:**  
FC  
**Species Specificity:**  
Mouse

## 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 0.1% sodium azide and 0.5% BSA, pH 7.3.

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

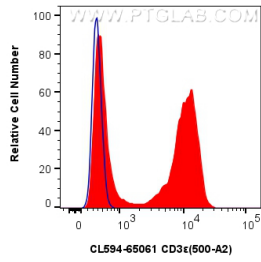
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



1X10<sup>6</sup> mouse splenocytes were surface stained with 0.5 ug CoraLite®594 Anti-Mouse CD3 ε (CL594-65061, Clone:500-A2) (red), or 0.5 ug Isotype Control. Cells were not fixed.