

For Research Use Only



# CoraLite®594 Anti-Human CD8 (UCHT4) Mouse IgG2a Recombinant Antibody

Catalog Number: ~~CL594-65559~~

## Basic Information

<b>Catalog Number:</b> CL594-65559	<b>GenBank Accession Number:</b> BC025715	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100tests , 5 µl/test	<b>GeneID (NCBI):</b> 925	<b>CloneNo.:</b> UCHT4
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000153563	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Isotype:</b> IgG2a	<b>UNIPROT ID:</b> P01732	
	<b>Full Name:</b> CD8a molecule	
	<b>Calculated MW:</b> 235 aa, 26 kDa	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
human

## Background Information

CD8 is a transmembrane glycoprotein composed of two disulfide-linked chains. It can be present as a homodimer of CD8 $\alpha$  or as a heterodimer of CD8 $\alpha$  and CD8 $\beta$  (PMID: 3264320; 8253791). CD8 is found on most thymocytes. The majority of class I-restricted T cells express mostly the CD8 $\alpha\beta$  heterodimer while CD8 $\alpha\alpha$  homodimers alone have been found on some gut intraepithelial T cells , on some T cell receptor (TCR)  $\gamma\delta$  T cells and on NK cells (PMID: 2111591; 1831127; 8420975). CD8 acts as a co-receptor that binds to MHC class-I and participates in cytotoxic T cell activation (PMID: 8499079). During T cell development, CD8 is required for positive selection of CD4-/CD8+ T cells (PMID: 1968084).

## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA.

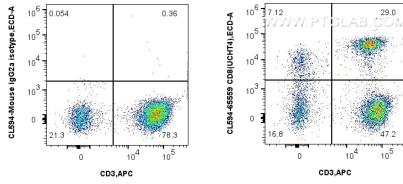
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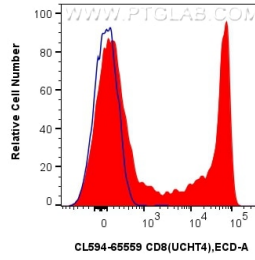
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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with APC Anti-Human CD3 and 5 ul CoraLite® 594 Anti-Human CD8 (UCHT4) Mouse IgG2a Recombinant Antibody (CL594-65559, Clone: UCHT4) (right), or CoraLite® 594 Mouse IgG2a Isotype Control (C1.18.4) (CL594-65208, Clone: C1.18.4) (left). Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul CoraLite® 594 Anti-Human CD8 (UCHT4) Mouse IgG2a Recombinant Antibody (CL594-65559, Clone: UCHT4) (red), or CoraLite® 594 Mouse IgG2a Isotype Control (C1.18.4) (CL594-65208, Clone: C1.18.4) (blue). Cells were not fixed. Lymphocytes were gated.