

For Research Use Only



# PerCP-Cyanine5.5 Anti-Human CD8 (UCHT4) Mouse IgG2a Recombinant Antibody

Catalog Number: **CPY5-65559**

## Basic Information

|                                      |                                              |                                                                   |
|--------------------------------------|----------------------------------------------|-------------------------------------------------------------------|
| <b>Catalog Number:</b><br>CPY5-65559 | <b>GenBank Accession Number:</b><br>BC025715 | <b>Purification Method:</b><br>Protein A purification             |
| <b>Size:</b><br>100tests, 5 µl/test  | <b>GeneID (NCBI):</b><br>925                 | <b>CloneNo.:</b><br>UCHT4                                         |
| <b>Source:</b><br>Mouse              | <b>ENSEMBL Gene ID:</b><br>ENSG00000153563   | <b>Excitation/Emission maxima wavelengths:</b><br>482 nm / 677 nm |
| <b>Isotype:</b><br>IgG2a             | <b>UNIPROT ID:</b><br>P01732                 |                                                                   |
|                                      | <b>Full Name:</b><br>CD8a molecule           |                                                                   |
|                                      | <b>Calculated MW:</b><br>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. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA.

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

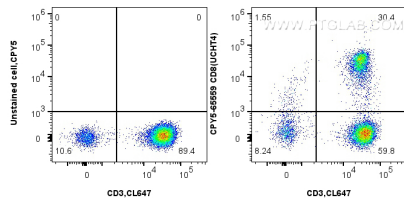
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://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 stained with 5 ul Percp-Cyanine5.5 CD8 Recombinant Antibody (CPY5-65559, Clone: UCHT4) or unstained. Cells were co-stained with CoraLite® Plus 647 Anti-Human CD3 (UCHT1) (CL647-65151, Clone: UCHT1). Cells were not fixed.