

# PE-Cyanine7 Anti-Human CD8 (UCHT4) Mouse IgG2a Recombinant Antibody

**Catalog Number:** PY7-65559

## Basic Information

**Catalog Number:**

PY7-65559

**Size:**

100 tests, 5 µl/test

**Source:**

Mouse

**Isotype:**

IgG2a

**GenBank Accession Number:**

BC025715

**GeneID (NCBI):**

925

**ENSEMBL Gene ID:**

ENSG00000153563

**UNIPROT ID:**

P01732

**Full Name:**

CD8a molecule

**Calculated MW:**

235 aa, 26 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

UCHT4

**Excitation/Emission maxima wavelengths:**

450-500 nm / 778 nm

## 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<sup>-</sup>/CD8<sup>+</sup> 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.

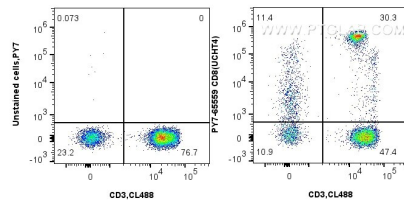
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul PE-Cyanine7 CD8 Recombinant Antibody (PY7-65559, Clone: UCHT4) or unstained. Cells were co-stained with CoraLite® Plus 488 Anti-Human CD3 (UCHT1) (CL488-65151, Clone: UCHT1). Cells were not fixed.