

# CoraLite®594 Anti-Mouse CD8a (53-6.7)

Catalog Number: **CL594-65069**

## Basic Information

**Catalog Number:**

CL594-65069

**Size:**

100ug, 500 µg/ml

**Source:**

Rat

**Isotype:**

IgG2a, kappa

**GenBank Accession Number:**

BC030679

**GeneID (NCBI):**

12525

**UNIPROT ID:**

P01731

**Full Name:**

CD8 antigen, alpha chain

**Purification Method:**

Affinity purification

**CloneNo.:**

53-6.7

**Excitation/Emission maxima wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

FC

**Species Specificity:**

Mouse

## 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

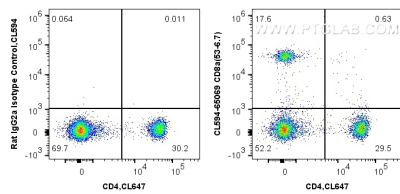
**Storage:**

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

## Selected Validation Data



1X10<sup>6</sup> BALB/c mouse splenocytes were surface co-stained with CoraLite® Plus 647 Anti-Mouse CD4 (GK1.5) and 0.5 ug CoraLite® 594 Anti-Mouse CD8a (CL594-65069, Clone: 53-6.7) or 0.5 ug isotype control. Cells were not fixed.