

For Research Use Only

# CoraLite® Plus 647 Anti-Mouse CD8a (5H10-1)



Catalog Number: CL647-65205

## Basic Information

<b>Catalog Number:</b> CL647-65205	<b>GenBank Accession Number:</b> BC030679	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 0.5 mg/ml	<b>GeneID (NCBI):</b> 12525	<b>CloneNo.:</b> 5H10-1
<b>Source:</b> Rat	<b>UNIPROT ID:</b> P01731	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Isotype:</b> IgG2b, lambda	<b>Full Name:</b> CD8 antigen, alpha chain	

## 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.

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

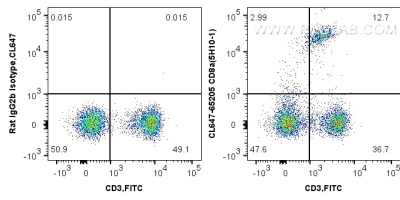
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## Selected Validation Data



1X10<sup>6</sup> mouse splenocytes were surface stained with FITC Anti-Mouse CD3 (FITC-65077, Clone: 17A2) and 0.125 ug CoraLite® Plus 647 Anti-Mouse CD8a (CL647-65205, Clone: 5H10-1) or CoraLite® Plus 647-Conjugated rat IgG2b isotype control. Cells were not fixed.