

For Research Use Only

# CoraLite® Plus 647 Anti-Mouse CD8a (53-6.7)

Catalog Number: CL647-65069

1 Publications



## Basic Information

<b>Catalog Number:</b> CL647-65069	<b>GenBank Accession Number:</b> BC030679	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, 0.5 mg/ml	<b>GeneID (NCBI):</b> 12525	<b>CloneNo.:</b> 53-6.7
<b>Source:</b> Rat	<b>UNIPROT ID:</b> P01731	<b>Recommended Dilutions:</b> IF/ICC 1:250-1:1000
<b>Isotype:</b> IgG2a, kappa	<b>Full Name:</b> CD8 antigen, alpha chain	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm

## Applications

<b>Tested Applications:</b> IF/ICC, FC	<b>Positive Controls:</b> IF/ICC : mouse splenocytes,
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> Mouse	
<b>Cited Species:</b> mouse	

## Background Information

CD8 is a transmembrane glycoprotein composed of two disulfide-linked chains. It can be present as a homodimer of CD8a or as a heterodimer of CD8a and CD8β (PMID: 3264320; 8253791). CD8 is found on most thymocytes. The majority of class I-restricted T cells express mostly the CD8aβ heterodimer while CD8aa homodimers alone have been found on some gut intraepithelial T cells, on some T cell receptor (TCR) γδ 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hui Qiu	39075517	J Transl Med	IF

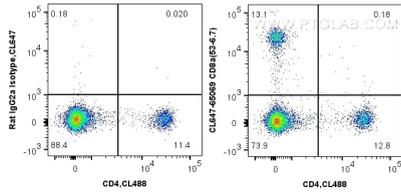
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide.

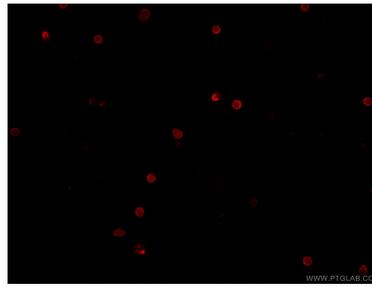
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



1X10<sup>6</sup> mouse splenocytes were surface stained with CoraLite® 488 Anti-Mouse CD4 (CL488-65104, Clone: GK1.5) and 0.25 ug CoraLite® Plus 647 Anti-Mouse CD8a (CL647-65069, Clone: 53-6.7) or CoraLite® Plus 647-Conjugated rat IgG2a isotype control. Cells were not fixed.



Immunofluorescent analysis of mouse splenocytes using CoraLite® Plus 647-conjugated Anti-Mouse CD8a (CL647-65069, Clone: 53-6.7) at dilution of 1:500.