

For Research Use Only

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

Catalog Number: CL647-65069

1 Publications



## Basic Information

Catalog Number:

CL647-65069

Size:

100ug, 0.5 mg/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

Recommended Dilutions:

IF/ICC 1:250-1:1000

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## Applications

Tested Applications:

IF/ICC, FC

Cited Applications:

IF

Species Specificity:

Mouse

Cited Species:

mouse

Positive Controls:

IF/ICC : mouse splenocytes,

## 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).

## 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:

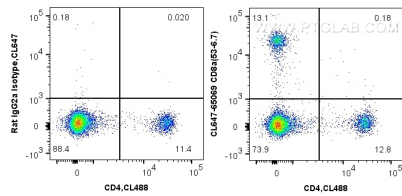
T: 4006900926

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

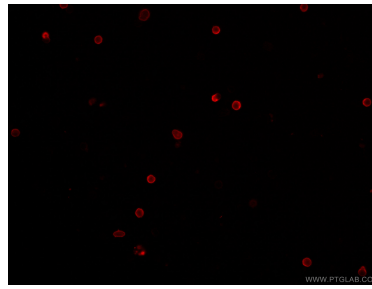
W: [ptgcn.com](http://ptgcn.com)

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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.