

For Research Use Only

# CoraLite® Plus 647 Anti-Mouse CD47 Rabbit scFv Antibody

Catalog Number: CL647-SF98456-3



## Basic Information

<b>Catalog Number:</b> CL647-SF98456-3	<b>GenBank Accession Number:</b> NP_001355344.1	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 16423	<b>CloneNo.:</b> 242850C4
<b>Source:</b> Rabbit	<b>Full Name:</b> CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	<b>Recommended Dilutions:</b> FC: 0.25 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Type:</b> scFv	<b>Calculated MW:</b> 33 kDa	<b>Excitation/Emission maximum wavelengths:</b> 654 nm / 674 nm
<b>Immunogen Catalog Number:</b> EG1394		

## Applications

<b>Tested Applications:</b> FC	<b>Positive Controls:</b> FC : mouse splenocytes,
<b>Species Specificity:</b> mouse	

## Background Information

CD47, also known as integrin-associated protein (IAP), is a member of the immunoglobulin superfamily containing a five-pass transmembrane attachment. CD47 is heavily glycosylated and widely expressed by hematopoietic and nonhematopoietic cells. CD47 interacts with several membrane integrins and also acts as a receptor for thrombospondin (THBS1). It is involved in a range of cellular processes, including apoptosis, proliferation, adhesion, and migration. CD47 also functions as a ligand for signal regulatory protein-α (SIRPα). Upon binding CD47, SIRPα initiates a signaling cascade that results in the inhibition of phagocytosis.

## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
50mM HEPES, 150mM NaCl, 5mM EDTA, 0.1% CHAPS, 10% Sucrose and 0.1% Proclin300, pH7.3

**\*\*\* 20ul sizes contain 0.1% BSA**

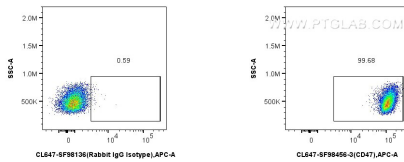
For technical support and original validation data for this product please contact:

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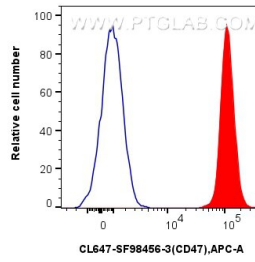
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## Selected Validation Data



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.25 ug CoraLite® Plus 647 Anti-Mouse CD47 Rabbit scFv Antibody (CL647-SF98456-3, Clone: 242850C4) or 0.25 ug CoraLite® Plus 647 Rabbit scFv Isotype Control (CL647-SF98136, Clone: 240953C9). Cells were not fixed.



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.25 ug CoraLite® Plus 647 Anti-Mouse CD47 Rabbit scFv Antibody (CL647-SF98456-3, Clone: 242850C4) (red) or 0.25 ug CoraLite® Plus 647 Rabbit scFv Isotype Control (CL647-SF98136, Clone: 240953C9) (blue). Cells were not fixed.