

For Research Use Only

# Anti-Mouse CD47 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98456-3-PBS



## Basic Information

Catalog Number:

98456-3-PBS

Size:

1mg, 3 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1394

GenBank Accession Number:

NP\_001355344.1

GeneID (NCBI):

16423

UNIPROT ID:

Q61735-1

Full Name:

CD47 antigen (Rh-related antigen, integrin-associated signal transducer)

Calculated MW:

33 kDa

Purification Method:

Protein A purification

CloneNo.:

242850C4

## Applications

Tested Applications:

FC

Species Specificity:

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- $\alpha$  (SIRP $\alpha$ ). Upon binding CD47, SIRP $\alpha$  initiates a signaling cascade that results in the inhibition of phagocytosis.

## Storage

Storage:

Store at  $-80^{\circ}\text{C}$ .

Storage Buffer:

PBS only, pH7.3

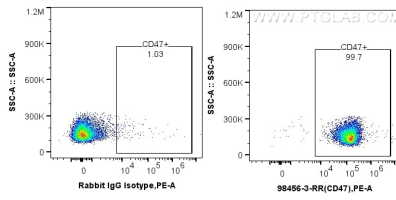
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

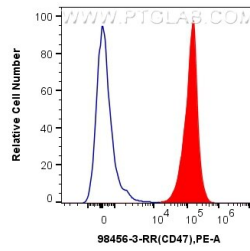
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

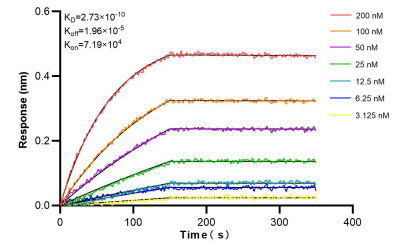
## Selected Validation Data



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.25 ug Anti-Mouse CD47 Rabbit RecAb (98456-3-RR, Clone:242850C4) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98456-3-PBS in a different storage buffer formulation.



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.25 ug Anti-Mouse CD47 Rabbit RecAb (98456-3-RR, Clone:242850C4) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98456-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 98456-3-RR against Mouse CD47 were performed. The affinity constant is 0.273 nM.