

For Research Use Only

# CD47 Monoclonal antibody, PBS Only

Catalog Number: 60551-1-PBS



## Basic Information

<b>Catalog Number:</b> 60551-1-PBS	<b>GenBank Accession Number:</b> BC010016	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 961	<b>CloneNo.:</b> 1A4C4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q08722	
<b>Isotype:</b> IgG1	<b>Full Name:</b> CD47 molecule	
	<b>Calculated MW:</b> 323 aa, 35 kDa	

## Applications

**Tested Applications:**  
IF/ICC, FC, Indirect ELISA

**Species Specificity:**  
human

## 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 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

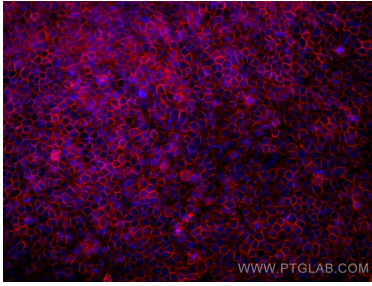
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

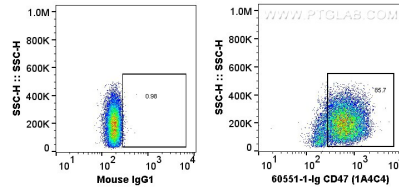
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected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



Immunofluorescent analysis of un-fixed HepG2 cells using CD47 antibody (60551-1-Ig, Clone: 1A4C4) at dilution of 1:500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004). This data was developed using the same antibody clone with 60551-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> human PBMCs were surface stained with 0.2 µg CD47 Monoclonal Antibody (60551-1-Ig, Clone: 1A4C4, right) and Multi-rAb CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, left) was parallel stained as control. Cells were not fixed. This data was developed using the same antibody clone with 60551-1-PBS in a different storage buffer formulation.