

For Research Use Only

# CD47 Monoclonal antibody, PBS Only

Catalog Number: 60551-1-PBS



## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
60551-1-PBS	BC010016	Protein G purification
Concentration:	GeneID (NCBI):	CloneNo.:
1 mg/ml	961	1A4C4
Source:	UNIPROT ID:	
Mouse	Q08722	
Isotype:	Full Name:	
IgG1	CD47 molecule	
Immunogen Catalog Number:	Calculated MW:	
EG31499	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.  
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:  
PBS only, pH7.3

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

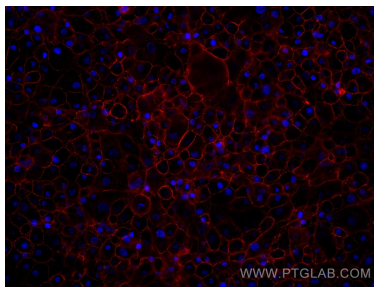
T: 4006900926

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

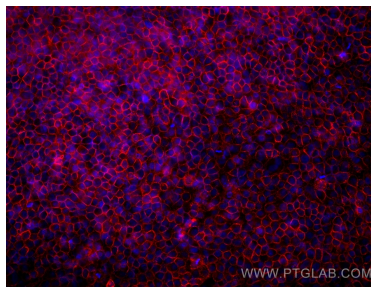
W: [ptgcn.com](http://ptgcn.com)

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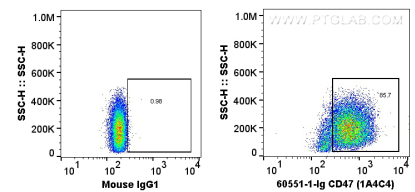
## Selected Validation Data



Immunofluorescent analysis of un-fixed A431 cells using CD47 antibody (60551-1-Ig, Clone: 1A4C4) at dilution of 1:1000 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.



Immunofluorescent analysis of un-fixed A431 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.



$1 \times 10^6$  human PBMCs were surface stained with  $0.2 \mu\text{g}$  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.