

For Research Use Only

# CD47 Monoclonal antibody, PBS Only



Catalog Number: 66304-1-PBS

Featured Product

## Basic Information

**Catalog Number:**

66304-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Mouse

**Isotype:**

IgG2b

**Immunogen Catalog Number:**

AG14132

**GenBank Accession Number:**

BC010016

**GeneID (NCBI):**

961

**UNIPROT ID:**

Q08722

**Full Name:**

CD47 molecule

**Calculated MW:**

323 aa, 35 kDa

**Observed MW:**

55 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1E1D8

## Applications

**Tested Applications:**

WB, 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 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°C.

**Storage Buffer:**

PBS Only

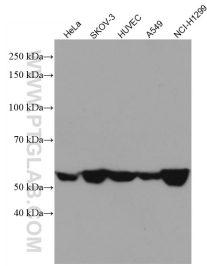
For technical support and original validation data for this product please contact:

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

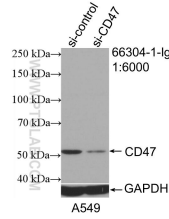
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

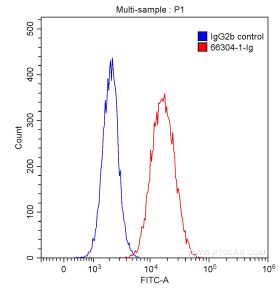
## Selected Validation Data



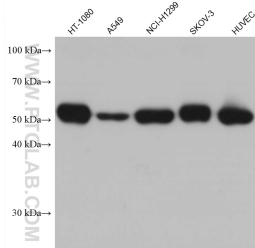
Various lysates were subjected to SDS PAGE followed by western blot with 66304-1-Ig (CD47 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66304-1-PBS in a different storage buffer formulation.



WB result of CD47 antibody (66304-1-Ig: 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CD47 transfected A549 cells. This data was developed using the same antibody clone with 66304-1-PBS in a different storage buffer formulation.



$1 \times 10^6$  HUVEC cells were stained with 0.20 ug Anti-Human CD47 (66304-1-Ig, Clone:1E1D8) (red) or 0.20 ug isotype control antibody (blue) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution of 1:1000. Cells were fixed with 90% MeOH. This data was developed using the same antibody clone with 66304-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 66304-1-Ig (CD47 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66304-1-PBS in a different storage buffer formulation.