

For Research Use Only

# CD47 Monoclonal antibody

Catalog Number: 66304-1-Ig

Featured Product

18 Publications



## Basic Information

Catalog Number:

66304-1-Ig

Size:

150ul, Concentration: 1500 ug/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:

50-55 kDa

Purification Method:

Protein A purification

CloneNo.:

1E1D8

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human, mouse, rat

Positive Controls:

WB : SKOV-3 cells, A549 cells, HT-1080 cells, Jurkat cells, NCI-H1299 cells, HUVEC cells, K-562 cells, TF-1 cells, human placenta tissue, HeLa cells, HaCaT cells, PANC-1 cells, MDA-MB-231 cells

IF/ICC : A549 cells,

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hongying Chen	34702291	J Nanobiotechnology	WB
Sukhbir Kaur	34841476	J Cell Commun Signal	IF,FC
Jing Li	35539950	RSC Adv	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

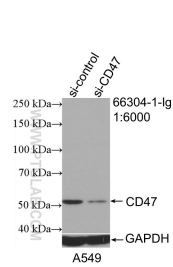
For technical support and original validation data for this product please contact:

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

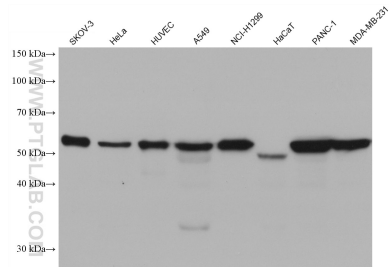
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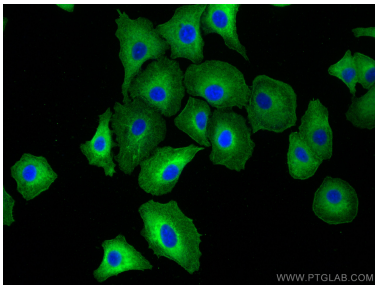
Selected Validation Data



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.



Various lysates were subjected to SDS PAGE followed by western blot with 66304-1-Ig (CD47 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using CD47 antibody (66304-1-Ig, Clone: 1E1D8 ) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).