

For Research Use Only

CD47 Monoclonal antibody

Catalog Number: 66304-1-Ig

Featured Product

2 Publications



Basic Information

Catalog Number:

66304-1-Ig

Size:

150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;

Source:

Mouse

IsoType:

IgG2b

Immunogen Catalog Number:

AG14132

GenBank Accession Number:

BC010016

GeneID (NCBI):

961

Full Name:

CD47 molecule

Calculated MW:

323 aa, 35 kDa

Observed MW:

55 kDa

Purification Method:

Protein A purification

CloneNo.:

1E1D8

Recommended Dilutions:

WB 1:1000-1:8000

Applications

Tested Applications:

FC, WB, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

WB : HeLa cells, A549 cells, HT-1080 cells, human placenta tissue, HUVEC cells, Jurkat cells, K-562 cells, SKOV-3 cells, NCI-H1299 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-α (SIRPα). Upon binding CD47, SIRPα initiates a signaling cascade that results in the inhibition of phagocytosis.

Notable Publications

Author	Pubmed ID	Journal	Application
Hongying Chen	34702291	J Nanobiotechnology	WB
Chenhui Bao	32785967	J Clin Lab Anal	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

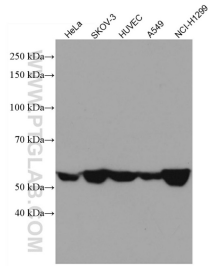
For technical support and original validation data for this product please contact:

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

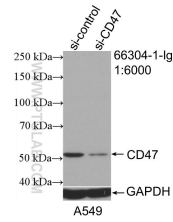
E: proteintech@ptglab.com
W: ptglab.com

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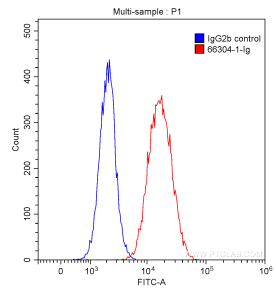
Selected Validation Data



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.



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.



1×10^6 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.