

For Research Use Only

CD47 Monoclonal antibody

Catalog Number: 66304-1-Ig

Featured Product

12 Publications



Basic Information

Catalog Number:

66304-1-Ig

Size:

1500 μ g/ml

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

Recommended Dilutions:

WB 1:1000-1:8000

Applications

Tested Applications:

FC, WB, ELISA

Cited Applications:

WB, IF, FC, IHC

Species Specificity:

human

Cited Species:

human, rat, mouse

Positive Controls:

WB : HeLa cells, Jurkat cells, K-562 cells, human placenta tissue, HT-1080 cells, A549 cells, NCI-H1299 cells, SKOV-3 cells, HUVEC cells, TF-1 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 (SIRP α). Upon binding CD47, SIRP α 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

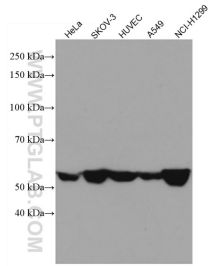
T: 4006900926

E: Proteintech-CN@ptglab.com

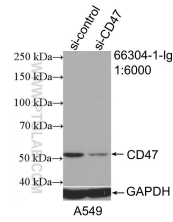
W: ptgcn.com

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

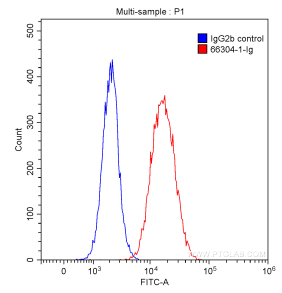
Selected Validation Data



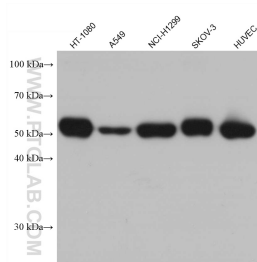
Various lysates were subjected to SDS PAGE followed by western blot with 66304-1-Ig (CD47 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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.



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.