

For Research Use Only

CD47 Monoclonal antibody

Catalog Number: 60551-1-Ig



Basic Information

Catalog Number:

60551-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

BC010016

GeneID (NCBI):

961

UNIPROT ID:

Q08722

Full Name:

CD47 molecule

Calculated MW:

323 aa, 35 kDa

Purification Method:

Protein G purification

CloneNo.:

1A4C4

Recommended Dilutions:

IF/ICC 1:250-1:1000

Applications

Tested Applications:

IF/ICC, FC, ELISA

Species Specificity:

human

Positive Controls:

IF/ICC : HepG2 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 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- α (SIRP α). Upon binding CD47, SIRP α initiates a signaling cascade that results in the inhibition of phagocytosis.

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:

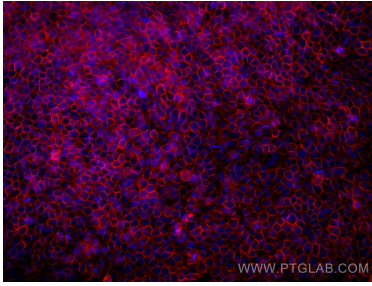
T: 4006900926

E: Proteintech-CN@ptglab.com

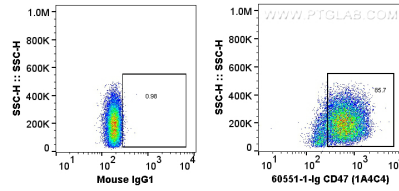
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Selected Validation Data



Immunofluorescent analysis of un-fixed HepG2 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).



1×10^6 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.