

For Research Use Only

# Mouse CD47 Recombinant antibody, PBS Only

Catalog Number: 85958-1-PBS



## Basic Information

|                           |  |                           |  |                      |
|---------------------------|--|---------------------------|--|----------------------|
| Catalog Number:           | 85958-1-PBS                                | GenBank Accession Number: | NP_001355344.1   | Purification Method: |
| Size:                     | 100ug, Concentration: 1 mg/ml by Nanodrop; | GenID (NCBI):             | 16423  | CloneNo.:            |
| Source:                   | Rabbit                                     | UNIPROT ID:               | Q61735-1   | 242850C4             |
| Isotype:                  | IgG  | Full Name:                | CD47 antigen (Rh-related antigen, integrin-associated signal transducer) |                      |
| Immunogen Catalog Number: | EG1394                                     | Calculated MW:            | 33 kDa   |                      |
|                           |  | Observed MW:              | 45-55 kDa  |                      |

## Applications

Tested Applications:  
WB, IF/ICC, Indirect ELISA

Species Specificity:  
mouse

## 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.

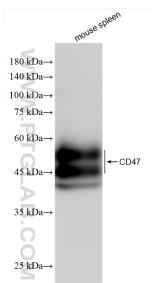
## Storage

Storage:  
Store at -80°C.  
Storage Buffer:  
PBS only, pH7.3

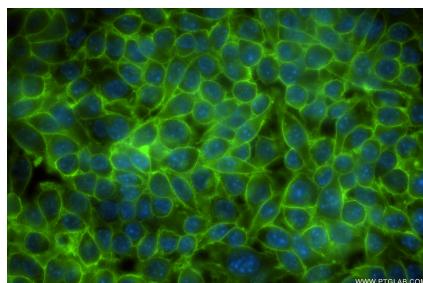
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Mouse spleen tissue was subjected to SDS PAGE followed by western blot with 85958-1-RR (CD47 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85958-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using CD47 antibody (85958-1-RR, Clone: 242850C4 ) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 85958-1-PBS in a different storage buffer formulation.