

For Research Use Only

# CoraLite® Plus 488-conjugated CD47 Recombinant monoclonal antibody

Catalog Number: CL488-85958



## Basic Information

<b>Catalog Number:</b> CL488-85958	<b>GenBank Accession Number:</b> NP_001355344.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 16423	<b>CloneNo.:</b> 242850C4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q61735-1	<b>Recommended Dilutions:</b> IF/ICC: 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> EG1394	<b>Calculated MW:</b> 33 kDa	
	<b>Observed MW:</b> 45-55 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF/ICC : RAW 264.7 cells,
<b>Species Specificity:</b> 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

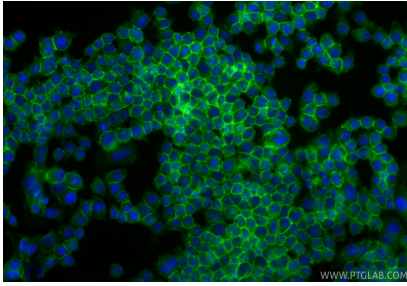
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
Aliquoting is unnecessary for -20°C storage

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](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using CoraLite® Plus 488 CD47 antibody (CL488-85958, Clone: 242850C4) at dilution of 1:200.