

For Research Use Only

# CD47 Polyclonal antibody

Catalog Number: 31886-1-AP



## Basic Information

<b>Catalog Number:</b> 31886-1-AP	<b>GenBank Accession Number:</b> NP_001355344.1	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 530 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 16423	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q61735-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	
<b>Immunogen Catalog Number:</b> EG1394	<b>Calculated MW:</b> 33 kDa	
	<b>Observed MW:</b> ~30 kDa, 40-50 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : PNGF treated NIH/3T3 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

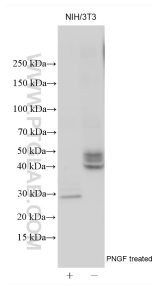
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

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 31886-1-AP (CD47 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.