

For Research Use Only

# CD47 Recombinant monoclonal antibody, PBS Only

Catalog Number: 80928-2-PBS



## Basic Information

<b>Catalog Number:</b> 80928-2-PBS	<b>GenBank Accession Number:</b> NM_001777.4	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 961	<b>CloneNo.:</b> 251993B3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q08722-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> CD47 molecule	
<b>Immunogen Catalog Number:</b> EG1767	<b>Calculated MW:</b> 35kDa	
	<b>Observed MW:</b> 50-55 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## 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

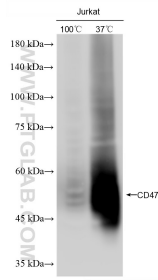
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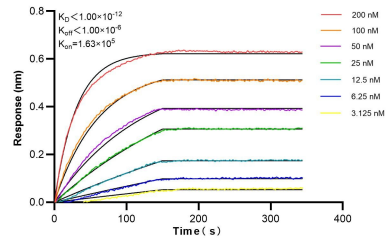
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80928-2-RR (CD47 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80928-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 80928-2-RR against Human CD47 were performed. The affinity constant is below 1 pM.