

For Research Use Only

# CD46 Recombinant antibody

Catalog Number: 84599-5-RR



## Basic Information

<b>Catalog Number:</b> 84599-5-RR	<b>GenBank Accession Number:</b> NM_172351.3	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 4179	<b>CloneNo.:</b> 241764F8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P15529-11	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> CD46 molecule, complement regulatory protein	
	<b>Calculated MW:</b> 42kDa	
	<b>Observed MW:</b> 50-65 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> A549 cells, HeLa cells, Jurkat cells, K-562 cells, MCF-7 cells <b>IF/ICC :</b> HeLa cells,

## Background Information

CD46, also known as Membrane cofactor protein (MCP) or MIC10, is a ubiquitously expressed type type-I transmembrane glycoprotein that acts as a cofactor for complement factor I to mediate inactivation of C3b and C4b deposited on host cells. CD46 is a receptor for a large number of pathogens, including measles virus and adenovirus (PMID: 20941397). CD46 plays a role in linking innate and adaptive immune responses. It may be involved in the fusion of the spermatozoa with the oocyte during fertilization. Mutations of the CD46 gene have been associated with some diseases including hemolytic uremic syndrome (PMID: 26054645). CD46 is expressed on most cells as four isoforms that are derived via alternative splicing (PMID: 15324743).

## 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:

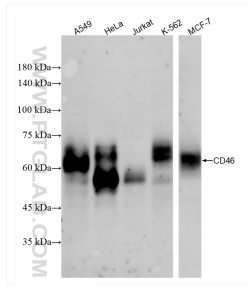
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

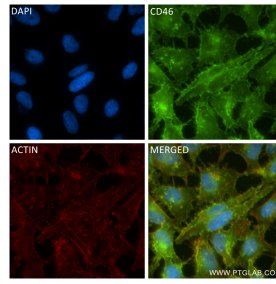
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

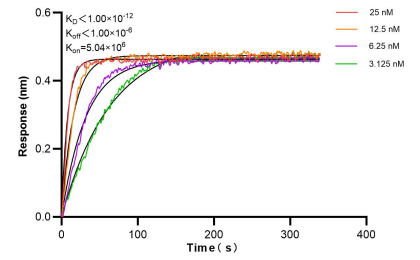
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84599-5-RR (CD46 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CD46 antibody (84599-5-RR, Clone: 241764F8) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Bi-layer interferometry (BLI) kinetic assays of 84599-5-RR against Human CD46 were performed. The affinity constant is below 1 pM.