

For Research Use Only

CD46 Recombinant antibody

Catalog Number: 84599-5-RR



Basic Information

Catalog Number: 84599-5-RR	GenBank Accession Number: NM_172351.3	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4179	CloneNo.: 241764F8
Source: Rabbit	UNIPROT ID: P15529-11	Recommended Dilutions: WB 1:500-1:2000 IHC 1:200-1:800 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: CD46 molecule, complement regulatory protein	
	Calculated MW: 42kDa	
	Observed MW: 50-65 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : A549 cells, HeLa cells, Jurkat cells, K-562 cells, MCF-7 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human colon cancer tissue, IF/ICC : HeLa cells,

Background Information

CD46, also known as Membrane cofactor protein (MCP) or MIC10, is a ubiquitously expressed 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

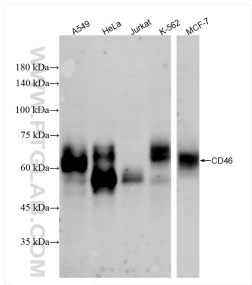
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

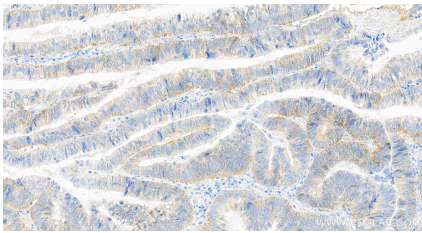
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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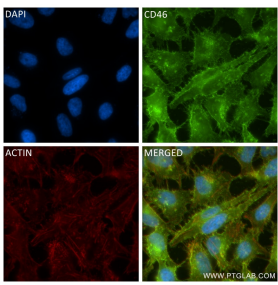
Selected Validation Data



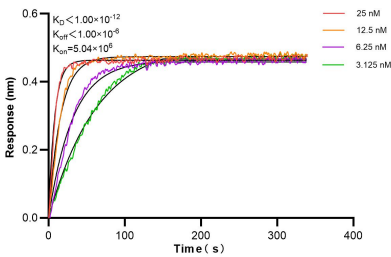
Various lysates were subjected to SDS PAGE followed by western blot with 84599-5-RR (CD46 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84599-5-RR (CD46 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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