

# CD147 Recombinant monoclonal antibody

Catalog Number: 82909-8-RR

## Basic Information

<b>Catalog Number:</b> 82909-8-RR	<b>GenBank Accession Number:</b> BC009040	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 682	<b>CloneNo.:</b> 251215H8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35613	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> basigin (Ok blood group)	
<b>Immunogen Catalog Number:</b> EG0436	<b>Calculated MW:</b> 385 aa, 42 kDa	
	<b>Observed MW:</b> 35-60 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> HeLa cells, Jurkat cells, RAW 264.7 cells, mouse spleen tissue
	<b>IF/ICC :</b> A431 cells,

## Background Information

CD147, also known as Basigin or extracellular matrix metalloproteinase inducer (EMMPRIN), is a transmembrane glycoprotein that belongs to the immunoglobulin superfamily (PMID: 7812975). The molecule is composed of an intracellular portion, an extracellular portion and a single transmembrane region. CD147 is expressed on a variety of cell types (e.g., hematopoietic, epithelial, and endothelial cells) and at varying levels (PMID: 32968061). Increased expression of CD147 occurs in many tumors. CD147 is a pleiotropic molecule that plays an important role in fetal, neuronal, lymphocyte and extracellular matrix development (PMID: 17945211). CD147 has been identified as a receptor essential for erythrocyte invasion by Plasmodium falciparum (PMID: 22080952). It has been reported that spike protein of SARS-CoV-2 binds to CD147 on host cells, thereby mediating the viral invasion (Wang, Ke, et al, BioRxiv, 2020).

## Storage

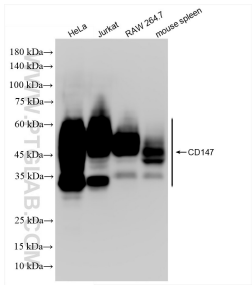
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

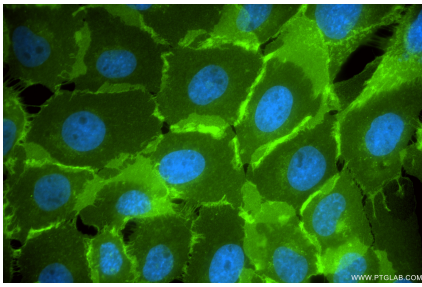
For technical support and original validation data for this product please contact:  
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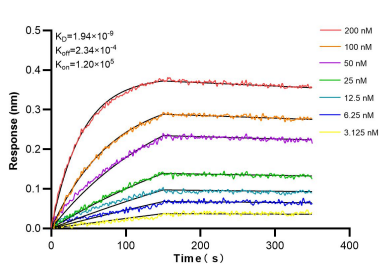
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82909-8-RR (CD147 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CD147 antibody (82909-8-RR, Clone: 251215H8) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 82909-8-RR against Human CD147 were performed. The affinity constant is 1.94 nM.