

# CD147 Recombinant antibody

Catalog Number: 82909-7-RR

## Basic Information

**Catalog Number:**

82909-7-RR

**Size:**

1000 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC009040

**GeneID (NCBI):**

682

**UNIPROT ID:**

P35613

**Full Name:**

basigin (Ok blood group)

**Calculated MW:**

385 aa, 42 kDa

**Observed MW:**

50-60 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

230046A9

**Recommended Dilutions:**

WB 1:5000-1:50000

IF/ICC 1:500-1:2000

## Applications

**Tested Applications:**

WB, IF/ICC, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : HeLa cells, HEK-293T cells

IF/ICC : HeLa 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:**

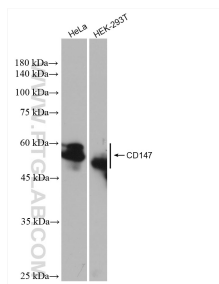
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

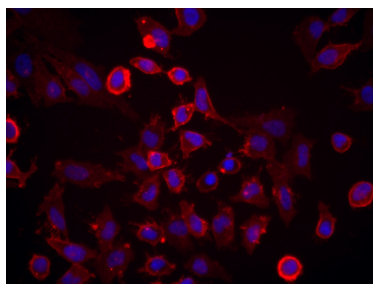
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

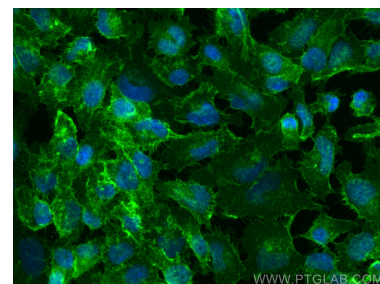
## Selected Validation Data



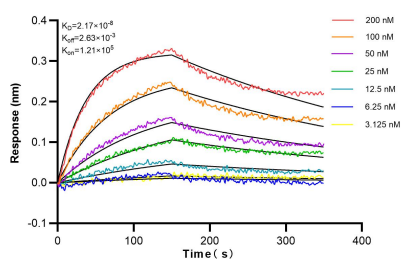
Various lysates were subjected to SDS PAGE followed by western blot with 82909-7-RR (CD147 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CD147 antibody (82909-7-RR, Clone: 230046A9) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR004).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CD147 antibody (82909-7-RR, Clone: 230046A9) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Biolayer interferometry (BLI) kinetic assays of 82909-7-RR against Human CD147 were performed. The affinity constant is 21.7 nM.