

# CD147 Recombinant antibody

Catalog Number: 82909-1-RR

## Basic Information

**Catalog Number:**

82909-1-RR

**Concentration:**

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

**Purification Method:**

Protein A purification

**CloneNo.:**

230046C1

**Recommended Dilutions:**

IF/ICC 1:500-1:2000

## Applications

**Tested Applications:**

IF/ICC, ELISA

**Species Specificity:**

human

**Positive Controls:**

IF/ICC : HeLa cells, MCF-7 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:**

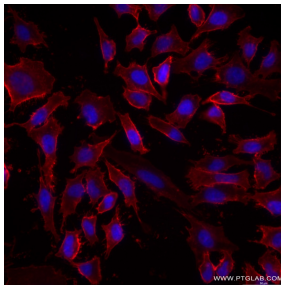
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

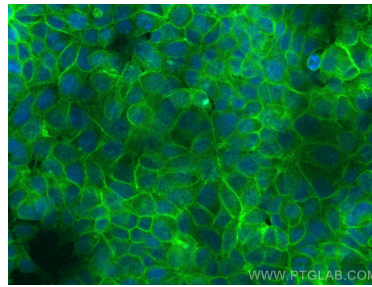
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

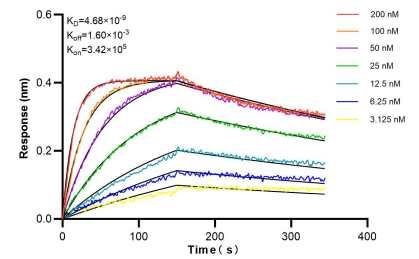
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CD147 antibody (82909-1-RR, Clone: 230046C1) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM004).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CD147 antibody (82909-1-RR, Clone: 230046C1) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 82909-1-RR against Human CD147 were performed. The affinity constant is 4.68 nM.