

CD147 Polyclonal antibody

Catalog Number: 11989-1-AP

Featured Product

36 Publications

Basic Information

Catalog Number:

11989-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2619

GenBank Accession Number:

BC009040

GeneID (NCBI):

682

UNIPROT ID:

P35613

Full Name:

basigin (Ok blood group)

Calculated MW:

385 aa, 42 kDa

Observed MW:

35-58 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:400-1:1600

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, human liver tissue, Jurkat cells, mouse heart tissue, mouse liver tissue, HepG2 cells

IP: HEK-293 cells,

IHC: human stomach cancer tissue, human liver cancer tissue, human lung cancer tissue

IF/ICC: A431 cells, 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 and 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). The CD147 gene, designated BSG for basigin, is located on chromosome 19p13.3. Four transcript variants encoding different isoforms have been found (PMID: 21536654). CD147 migrates on SDS-PAGE usually between 35 and 65 kDa, depending on the degree of glycosylation (PMID: 17945211).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|-------------|---------------|
| Linda Sooman | 25263081 | Acta Oncol | IHC |
| Lingling Gao | 35003362 | J Cancer | WB, IHC, CoIP |
| Tao Wang | 28985237 | PLoS Pathog | WB |

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

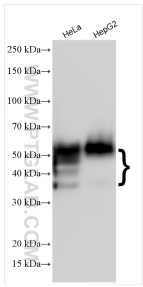
For technical support and original validation data for this product please contact:

T: 4006900926

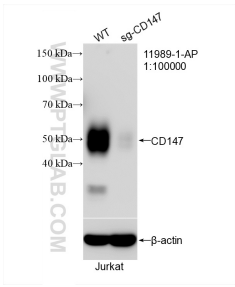
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

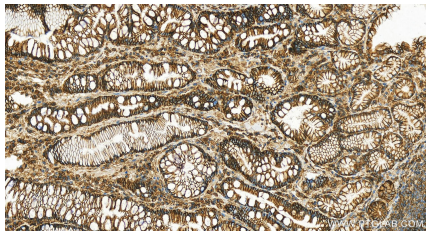
Selected Validation Data



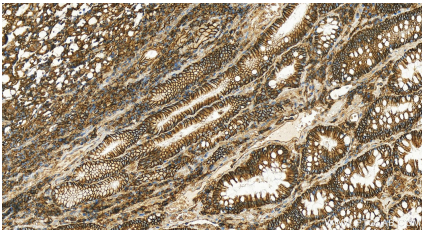
Various lysates were subjected to SDS PAGE followed by western blot with 11989-1-AP (CD147 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



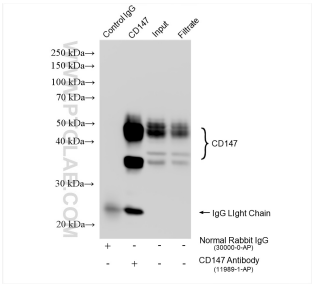
WB result of CD147 antibody (11989-1-AP; 1:100000; room temperature for 1.5 hours) with wild-type and CD147 knockout Jurkat cells.



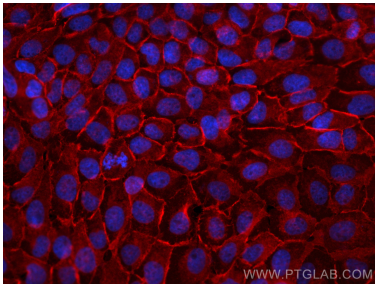
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 11989-1-AP (CD147 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 11989-1-AP (CD147 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CD147 (IP:11989-1-AP, 4ug; Detection:11989-1-AP 1:10000) with HEK-293 cells lysate 1200 ug.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CD147 antibody (11989-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).