For Research Use Only

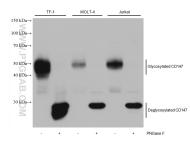
CD147 Monoclonal antibody

Catalog Number:66443-1-Ig Featured Product 7 Publications

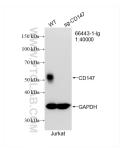
proteintech® Antibodies | ELISA kits | Proteins www.ptglab.com

| Basic Information | Catalog Number: 66443-1-lg | GenBank Accession BC009040 | nBank Accession Number: 009040 | | Purification Method: Protein G purification | |
|---------------------------------|---|---|--|--|---|--|
| | Size: | GeneID (NCBI): | | CloneNo.: | | |
| | 150ul , Concentration: 1902 ug/ml by | 682 | | 1G12B5 | | |
| | method using BSA as the standard; | rce: Full Name: use basigin (Ok blood group) type: Calculated MW: 1 385 aa, 42 kDa munogen Catalog Number: Observed MW: | | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500 IF-P 1:400-1:1600 | | |
| | Source: Mouse | | | | | |
| | | | | IF/ICC 1:400-1:1600 | | |
| | lgG1 | | | | | |
| | Immunogen Catalog Number: AG2619 | | | | | |
| Applications | Tested Applications: | | Positive Cont | rols: | | |
| | WB, IHC, IF/ICC, IF-P, ELISA Cited Applications: WB, IF, IP Species Specificity: | | WB: TF-1 cell | WB : TF-1 cells, human spleen tissue, Jurkat cells, PNGF treated TF-1 cells, MOLT-4 cell | | |
| | | | PNGF treated | | | |
| | | | | nan liver cancer tissue, human placenta uman tonsillitis tissue | | |
| | human, pig | | IF-P : human t | IF-P : human tonsillitis tissue, | | |
| | Cited Species: human | | IF/ICC : A431 cells, 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 | | | | | |
| | as a receptor essential for erythrocyte | invasion by Plasmo | dium falciparum | (PMID: 22080952). | ays an important role 7 has been identified It has been reported | |
| Notable Dublications | as a receptor essential for erythrocyte that spike protein of SARS-CoV-2 bind BioRxiv, 2020). The CD147 gene, desi variants encoding different isoforms between 35 and 65 kDa, depending of | e invasion by Plasmo ds to CD147 on host c gnated BSG for basig have been found (PM n the degree of glyco | dium falciparum cells, thereby mec in, is located on o ID: 21536654). Cl sylation (PMID: 1 | (PMID: 22080952). I diating the viral inv hromosome 19p13. D147 migrates on SI | ays an important role 7 has been identified It has been reported asion (Wang, Ke, et a 3. Four transcript DS-PAGE usually | |
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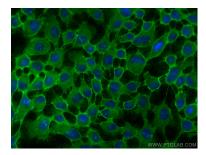
Selected Validation Data



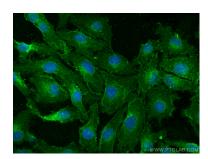
Untreated and PNGase F-treated lysates of TF-1 cells, MOLT-4 cells, Jurkat cells were subjected to SDS PAGE followed by western blot with 66443-1-Ig (CD147 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



WB result of CD147 antibody (66443-1-lg; 1:40000; room temperature for 1.5 hours) with wild-type and CD147 knockout Jurkat cells.



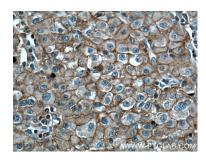
Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using CD147 antibody (66443-1-lg, Clone: 1G12B5) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



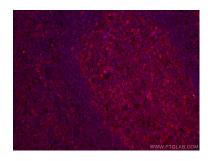
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CD147 antibody (66443-1-1g, Clone: 1G12B5) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



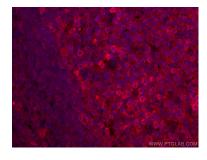
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66443-1-1g (CD147 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66443-1-Ig (CD147 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD147 antibody (66443-1-1g, Clone: 1G12B5) at dilution of 1:800 and CoraLite@594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD147 antibody (66443-1-1g, Clone: 1G12B5) at dilution of 1:800 and Coralite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).