For Research Use Only

CD147 Monoclonal antibody

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

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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					
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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).