For Research Use Only

CD146/MCAM Polyclonal antibody

Catalog Number:17564-1-AP

Featured Product 29 Publications



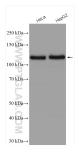
Storage	Storage: Store at -20°C. Stable for one year af			
			ience em Cell Res Ther	WB,IHC,IF
			issue Eng Regen M	
				Application
Background Information	CD146, also known as melanoma cell adhesion molecule (MCAM) or MUC18, originally identified as a biomarker of melanoma progression, is a transmembrane glycoprotein of 113-130 kDa, belonging to the immunoglobulin (Ig) superfamily (PMID: 8378324; 25993332). Structurally, it consists of five Ig domains, a transmembrane domain, and a cytoplasmic region. In normal adult tissue, CD146 is primarily expressed by vascular endothelium and smooth muscle. CD146 is a key cell adhesion protein in vascular endothelial cell activity and angiogenesis, and has been used as marker of circulating endothelium cells (CECs) (PMID: 19356677). In addition to the membrane-anchored form of CD146, a soluble form of CD146 (sCD146, 105 kDa) has also been found in human plasma and in the supernatant of cultured human endothelial cells (PMID: 9462829; 19229070; 16374253; 14597988).			
	Note-IHC: suggested antigen i TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen		
	Cited Species: human, mouse, rat, rabbit	IF/ICC : HUVE		
	human, mouse, rat	ons: cells, HepG2 Cell treatment IP : HeLa cell: city: IHC : human of		ovary cancer tissue, spleen tissue,
	Species Specificity:			s, HepG2 cells
	Cited Applications:			•
Applications	Tested Applications: Positive Cor WB, IHC, IF/ICC, IF-P, IP, ELISA WB : Hole or		trols: ls, A375 cells, mouse lung tissue, HUVE(
	AG11762	Observed MW: 113-120 kDa		
	Immunogen Catalog Number:	646 aa, 72 kDa		
	Isotype: IgG	Full Name: melanoma cell adhesion molecule Calculated MW:		IHC: 1:20000-1:80000 IF-P: 1:50-1:500 IF/ICC: 1:50-1:500
	Rabbit			
	Source:	P43121		protein lysate
	150ul , Concentration: 550 ug/ml by Nanodrop;	4162 UNIPROT ID:		WB: 1:2000-1:10000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total
	Size:	GeneID (NCBI):		Recommended Dilutions:
Basic Information	17564-1-AP	GenBank Accession Number: BC056418		Antigen affinity purification

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA)

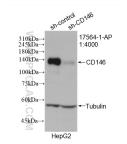
W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

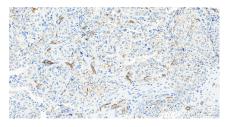
Selected Validation Data



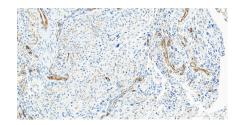
Various lysates were subjected to SDS PAGE followed by western blot with 17564-1-AP (CD146/MCAM antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



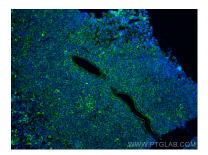
WB result of CD146/MCAM antibody (17564-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CD146/MCAM transfected HepC2 cells.



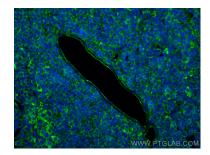
Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 17564-1-AP (CD146/MCAM antibody) at dilution of 1:40000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



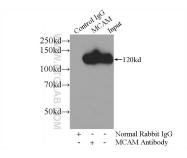
Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 17564-1-AP (CD146/MCAM antibody) at dilution of 1:40000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



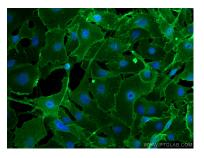
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD146/MCAM antibody (17564-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD146/MCAM antibody (17564-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CD146/MCAM (IP:17564-1-AP, 4ug; Detection:17564-1-AP 1:1500) with HeLa cells lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CD146/MCAM antibody (17564-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).