

For Research Use Only

# CD146/MCAM Recombinant monoclonal antibody

Catalog Number:86492-1-RR



## Basic Information

Catalog Number:	86492-1-RR	GenBank Accession Number:	NM_006500.2	Purification Method:	Protein A purification
Source:	Rabbit	GenID (NCBI):	4162	CloneNo.:	250530B11
Isotype:	IgG	UNIPROT ID:	P43121-1	Recommended Dilutions:	WB: 1:5000-1:50000 IF/ICC: 1:400-1:1600
Immunogen Catalog Number:	EG2938	Full Name:	melanoma cell adhesion molecule	Calculated MW:	72 kDa
				Observed MW:	120 kDa

## Applications

Tested Applications:	WB, IF/ICC, ELISA	Positive Controls:	
Species Specificity:	human	WB:	A375 cells, HeLa cells, HepG2 cells, L02 cells, HUVEC cells

## 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).

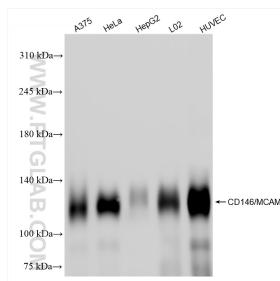
## Storage

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

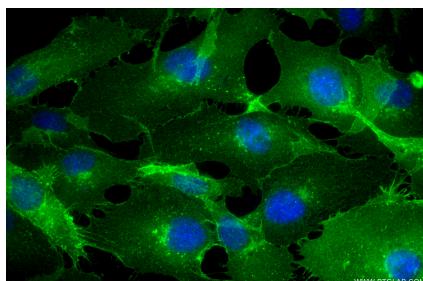
For technical support and original validation data for this product please contact:  
T: 4006900926      E: Proteintech-CN@ptglab.com      W: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86492-1-RR (MCAM antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CD146/MCAM antibody (86492-1-RR, Clone: 250530B11) at dilution of 1:800 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).