

For Research Use Only

PE-conjugated CD146/MCAM Monoclonal antibody

Catalog Number: PE-66153



Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
PE-66153	BC056418	Protein G purification
Concentration:	GeneID (NCBI):	CloneNo.:
200 ug/ml	4162	4D8A9
Source:	UNIPROT ID:	Recommended Dilutions:
Mouse	P43121	IF-P: 1:50-1:500
Isotype:	Full Name:	Excitation/Emission maxima wavelengths:
IgG1	melanoma cell adhesion molecule	496 nm, 565 nm / 578 nm
Immunogen Catalog Number:	Calculated MW:	
AG11855	646 aa, 72 kDa	
	Observed MW:	
	120 kDa	

Applications

Tested Applications:	Positive Controls:
IF-P	IF-P : human colon cancer tissue,
Species Specificity:	
human	

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). This antibody detects a band at approximately 120 kDa that corresponds to the molecular weight of glycosylated CD146. Treatment of lysates of HepG2 cells and LO2 cells with PNGase F, which removes oligosaccharides from N-linked glycoproteins, led to a down-shift of the detected band.

Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

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

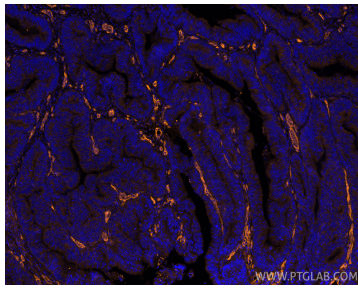
T: 4006900926

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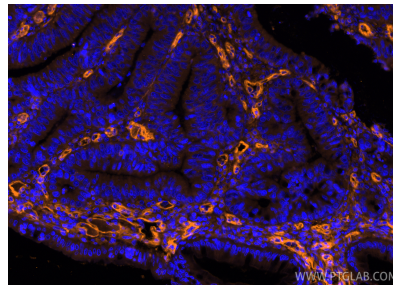
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human colon cancer tissue using PE CD146/MCAM antibody (PE-66153, Clone: 4D8A9) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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