For Research Use Only

PE-conjugated CD146/MCAM Monoclonal antibody

Catalog Number: PE-66153



Basic Information	Catalog Number: PE-66153	GenBank Accession Number: BC056418	Purification Method: Protein G purification
	Size: 100ul , Concentration: 200 µg/ml by Nanodrop; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG11855	GeneID (NCBI): 4162 UNIPROT ID: P43121 Full Name: melanoma cell adhesion molecule Calculated MW: 646 aa, 72 kDa Observed MW: 120 kDa	CloneNo.: 4D8A9 Recommended Dilutions: IF-P: 1:50-1:500 Excitation/Emission maxima wavelengths: 496 nm, 565 nm / 578 nm
Applications	Tested Applications: IF-P Species Specificity: human	Positive Controls: IF-P : human colon cancer tissue,	
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 lig Storage Buffer: PBS with 0.09% sodium azide and 0.	ht. Stable for one year after shipment. 5% BSA, pH7.3	

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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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