For Research Use Only

PE-conjugated CD146/MCAM Monoclonal antibody

Catalog Number: PE-66153



Purification Method:

496 nm, 565 nm / 578 nm

Basic Information

Catalog Number: GenBank Accession Number:

BC056418 Protein G purification

Size: Genel D (NCBI): CloneNo.: 100ul , Concentration: 200 μ g/ml by 4162 4D8A9

Nanodrop; UNIPROT ID: Recommended Dilutions:
Source: P43121 IF-P: 1:50-1:500

Mouse Full Name: Excitation/Emission maxima

Isotype: melanoma cell adhesion molecule wavelengths:

IgG1 Calculated MW:

Immunogen Catalog Number: 646 aa, 72 kDa
AG11855 Observed MW

120 kDa

Applications

Tested Applications:

IF-P

PE-66153

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

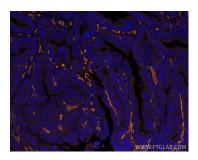
Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

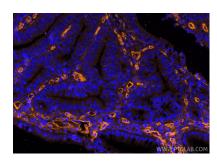
Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

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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