

For Research Use Only

# CoraLite®594-conjugated CD146/MCAM Monoclonal antibody



Catalog Number:CL594-66153

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>CL594-66153                             | <b>GenBank Accession Number:</b><br>BC056418         | <b>Purification Method:</b><br>Protein G purification                 |
| <b>Size:</b><br>100ul , Concentration: 2000 µg/ml by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>4162                        | <b>CloneNo.:</b><br>4D8A9   |
| <b>Source:</b><br>Mouse   | <b>UNIPROT ID:</b><br>P43121                         | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>588 nm / 604 nm |
| <b>Isotype:</b><br>IgG1   | <b>Full Name:</b><br>melanoma cell adhesion molecule |   |
| <b>Immunogen Catalog Number:</b><br>AG11855                       | <b>Calculated MW:</b><br>646 aa, 72 kDa              |   |
|   | <b>Observed MW:</b><br>120 kDa                       |   |

## Applications

**Tested Applications:**  
**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 -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

---

## Selected Validation Data