

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 |
| Size: | 100ul, Concentration: 1000 µg/ml by Nanodrop; | GenID (NCBI): | 4162 | CloneNo.: | 250530B11 |
| Source: | Rabbit | UNIPROT ID: | P43121-1 | Recommended Dilutions: | WB: 1:5000-1:50000 IF/ICC: 1:400-1:1600 |
| Isotype: | IgG | Full Name: | melanoma cell adhesion molecule | | |
| Immunogen Catalog Number: | EG2938 | Calculated MW: | 72 kDa | | |
| | | Observed MW: | 120 kDa | | |

Applications

| | |
|----------------------|---|
| Tested Applications: | Positive Controls: |
| WB, IF/ICC, ELISA | WB: A375 cells, HeLa cells, HepG2 cells, L02 cells, HUVEC cells |
| Species Specificity: | IF/ICC : HUVEC cells, |
| 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).

Storage

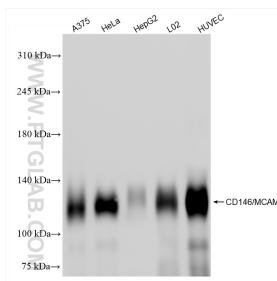
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

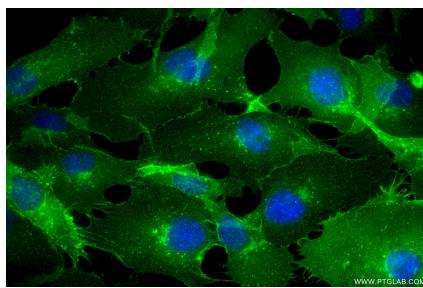
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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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).