

CoraLite®594-conjugated CD146/MCAM Monoclonal antibody

Catalog Number: **CL594-66153**

Basic Information

Catalog Number:

CL594-66153

Size:

2000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG11855

GenBank Accession Number:

BC056418

GeneID (NCBI):

4162

UNIPROT ID:

P43121

Full Name:

melanoma cell adhesion molecule

Calculated MW:

646 aa, 72 kDa

Observed MW:

120 kDa

Purification Method:

Protein G purification

CloneNo.:

4D8A9

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

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 endothelial 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

