# CoraLite® Plus 488-conjugated CD146/MCAM Polyclonal antibody

Catalog Number: CL488-17564   Featured Product

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Antibodies | ELISA kits | Proteins
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## Basic Information

**Catalog Number:**
CL488-17564

**Size:**
1000 μg/ml

**Source:**
Rabbit

**Isotype:**
IgG

**Immunogen Catalog Number:**
AG11762

**GenBank Accession Number:**
BC056418

**GeneID (NCBI):**
4162

**UNIPROT ID:**
P43121

**Full Name:**
melanoma cell adhesion molecule

**Calculated MW:**
646 aa, 72 kDa

**Observed MW:**
113-120 kDa

**Purification Method:**
Antigen affinity purification

**Recommended Dilutions:**
IF/ICC 1:200-1:800

**Excitation/Emission maxima wavelengths:**
493 nm / 522 nm

## Applications

**Tested Applications:**
IF/ICC

**Species Specificity:**
human, mouse, rat

**Positive Controls:**
IF/ICC : HUVEC cells,

## 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).
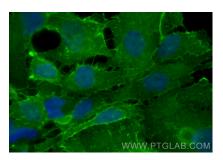
## Storage

**Storage:**
Store at -20℃. 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

# Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CoraLite® Plus 488 CD146/MCAM antibody (CL488-17564) at dilution of 1:400.