For Research Use Only

CD146/MCAM Polyclonal antibody

Catalog Number: 17564-1-AP

Featured Product

25 Publications



Basic Information

Catalog Number: 17564-1-AP

GenBank Accession Number: BC056418

Purification Method: Antigen affinity purification

Size:

GeneID (NCBI):

Recommended Dilutions:

550 ug/ml Source: 4162 UNIPROT ID: WB 1:2000-1:10000

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Rabbit

AG11762

P43121

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Isotype:

Full Name: melanoma cell adhesion molecule protein lysate IHC 1:200-1:600

IgG

Calculated MW:

646 aa, 72 kDa

Observed MW:

113-120 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Immunogen Catalog Number:

Cited Applications:

WB, IHC, IF, IP, Cell treatment

Species Specificity: human, mouse, rat

Cited Species:

human, mouse, rat, rabbit

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

WB : HeLa cells, A

WB: HeLa cells, A375 cells, mouse lung tissue, HUVEC

cells, HepG2 cells

Positive Controls:

IP: HeLa cells, HepG2 cells

IHC: human ovary tumor tissue, human brain tissue, human heart tissue, human kidney tissue, human lung tissue, human placenta tissue, human spleen tissue, human testis tissue

IF-P: mouse spleen tissue,
IF/ICC: HUVEC cells, HeLa 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Peter Genovese	34551191	J Tissue Eng Regen Med	WB, IHC
Hao Zhang	36093059	iScience	WB,IHC,IF
Zuping Wu	36068594	Stem Cell Res Ther	FC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

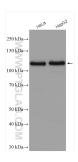
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

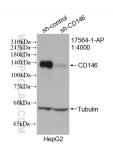
W: ptgcn.cor

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

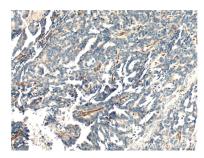
Selected Validation Data



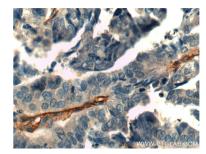
Various lysates were subjected to SDS PAGE followed by western blot with 17564-1-AP (CD146/MCAM antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



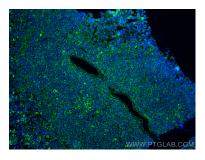
WB result of CD146/MCAM antibody (17564-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CD146/MCAM transfected HepG2 cells.



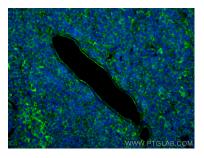
Immunohistochemical analysis of paraffinembedded human ovary tumor tissue slide using 17564-1-AP (CD146/MCAM antibody at dilution of 1:600 (under 10x lens).



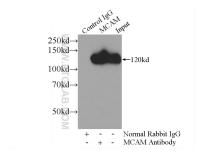
Immunohistochemical analysis of paraffinembedded human ovary tumor tissue slide using 17564-1-AP (CD146/MCAM antibody at dilution of 1:600 (under 40x lens).



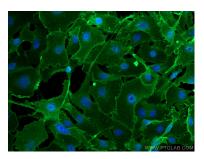
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD146/MCAM antibody (17564-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CD146/MCAM antibody (17564-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CD146/MCAM (IP:17564-1-AP, 4ug; Detection:17564-1-AP 1:1500) with HeLa cells lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CD146/MCAM antibody (17564-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).