
Product Name: KD-Validated CD146 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01506**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 71.6kDa

Antigen Information

Gene Name	MCAM
Alternative Names	MCAM; Melanoma Cell Adhesion Molecule; MUC18; METCAM; HEMCAM; CD146; S-Endo 1 Endothelial-Associated Antigen; Melanoma-Associated Antigen MUC18; Cell Surface Glycoprotein MUC18; Cell Surface Glycoprotein P1H12; Melanoma-Associated Antigen A32; Gicerin; MelCAM; Melanoma Adhesion Molecule; CD146 Antigen; MELCAM
Gene ID	4162.0
SwissProt ID	P43121
Immunogen	A synthesized peptide derived from human CD146

Background

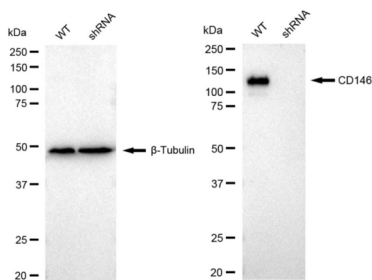
Predicted to enable laminin receptor activity. Involved in glomerular filtration and vascular wound healing. Acts upstream of or

within angiogenesis. Located in external side of plasma membrane. Biomarker of chronic obstructive pulmonary disease and uveal melanoma. [provided by Alliance of Genome Resources, Jul 2025]

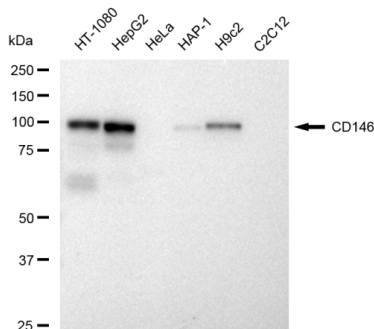
Research Area

Immunology, Signal Transduction, Cancer, Stem Cells, Cardiovascular

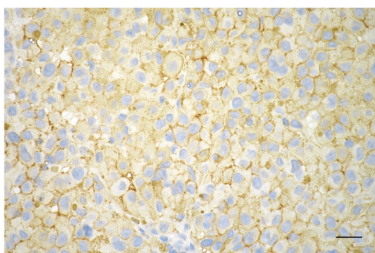
Image Data



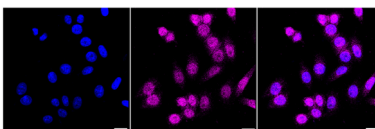
Western blotting analysis using CD146 antibody (KVA01506). CD146 expression in wild type (WT) and CD146 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with CD146 antibody (KVA01506, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



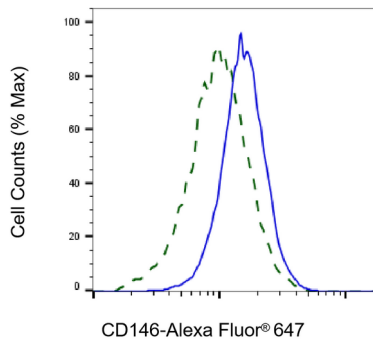
Western blotting analysis using CD146 antibody (KVA01506). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CD146 antibody (KVA01506, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



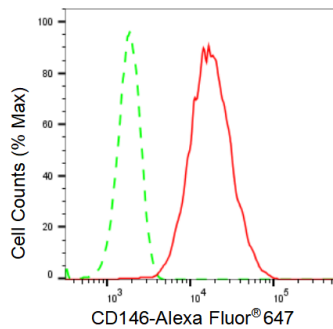
Immunohistochemistry was performed on paraffin-embedded human melanoma using CD146 antibody (KVA01506, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HepG2 cells with CD146 antibody (KVA01506, 1:1,000). Nuclei were stained blue with DAPI; CD146 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of CD146 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with CD146 antibody (KVA01506, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of CD146 expression in HepG2 cells using CD146 antibody (KVA01506, 1:2,000). Green, isotype control; red, CD146.