SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-CD146 antibody

Catalog Number: SL1618R

FOR RESEARCH USE ONLY

[DATASHEET]

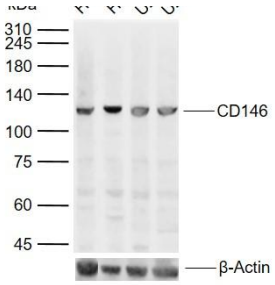
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CD146
Immunogen:	KLH conjugated synthetic peptide derived from human CD146: 201-300/646 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Cow,Horse)
Predicted MW.:	71kDa
Subcellular Location:	The cell membrane
Background:	MCAM (MUC18 antigen, CD146), a member of the immuoglobulin superfamily, is an intrinsic membrane glycoprotein of 110-120 kDa found on the surface of endothelial cells, bone marrow fibroblasts and various melanomas. MCAM (Melanoma adhesion molecule) has been used as a marker of tumor progression in human melanoma because expression in those tumors correlates strongly with poor prognosis and the development of metastic disease. In addition, a number of human T, B and myeloid leukemic cell lines seem to express MCAM. The close structural relationship with N-CAM and related molecules suggests that MCAM may be also a developmentally regulated cell adhesion. **Function:** Plays a role in cell adhesion, and in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. Its expression may allow melanoma cells to interact with cellular elements of the vascular system, thereby enhancing hematogeneous tumor spread. Could be an adhesion

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	molecule active in neural crest cells during embryonic development. Acts as surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Tissue Specificity:** Detected in endothelial cells in vascular tissue throughout the body. May appear at the surface of neural crest cells during their embryonic migration. Appears to be limited to vascular smooth muscle in normal adult tissues. Associated with tumor progression and the development of metastasis in human malignant melanoma. Expressed most strongly on metastatic lesions and advanced primary tumors and is only rarely detected in benign melanocytic nevi and thin primary melanomas with a low probability of metastasis. **Similarity:** Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 2 Ig-like V-type (immunoglobulin-like) domains. **Database links:** **Entrez Gene:** 4162 Human **Entrez Gene:** 84004 Mouse **Entrez Gene:** 78967 Rat Omim: 155735 Human **SwissProt:** P43121 Human **SwissProt:** Q8R2Y2 Mouse **SwissProt:** Q9EPF2 Rat **Unigene:** 599039 Human **Unigene:** 275003 Mouse **Unigene:** 2694 Rat CD146 molecule is mainly selectively expressed at higher levels in tumor vascular endothelial cells.

[VALIDATION IMAGES]



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Sample:
Lane 1: Human Huvec cell lysates
Lane 2: Human Hela cell lysates
Lane 3: Human U2OS cell lysates
Lane 4: Human U251 cell lysates
Primary: Anti-CD146 (SL1618R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 71 kDa
Observed band size: 115 kDa

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