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Anti-CD146 MCAM Rabbit Monoclonal Antibody

Catalog Number: M01683-1

About MCAM

CD146 (cluster of differentiation 146), also known as the melanoma cell adhesion molecule (MCAM) or cell surface glycoprotein MUC18, is a 113kDa cell adhesion molecule currently used as a marker for endothelial cell lineage. MCAM, a member of the immunoglobulin superfamily, is homologous to several cell adhesion molecules and is associated with tumor progression and the development of metastasis in human malignant melanoma. By radiation hybrid analysis, this gene is mapped to chromosome 11q23.3. MCAM has been demonstrated to appear on a small subset of T and B lymphocytes in the peripheral blood of healthy individuals. MCAM has been seen as a marker for mesenchymal stem cells isolated from multiple adult and fetal organs, and its expression may be linked to multipotency mesenchymal stem cells with greater differentiation potential express higher levels of MCAM on the cell surface.

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Overview

Product Name	Anti-CD146 MCAM Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat, Zebrafish
Description	Boster Bio Anti-CD146 MCAM Rabbit Monoclonal Antibody catalog # M01683-1. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal AbC83
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P43121

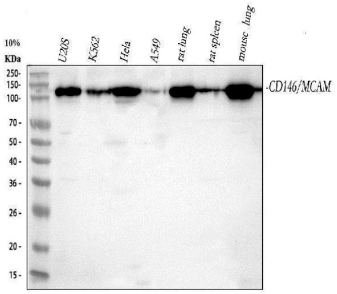
Technical Details

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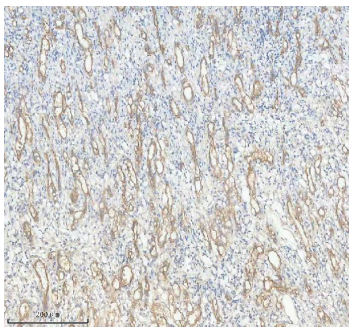
Immunogen	A synthesized peptide derived from human CD146
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB, 1:500-2000 IHC, 1:50-200 ICC/IF, 1:50-200 IP, 1:50 <tFC, 1:50

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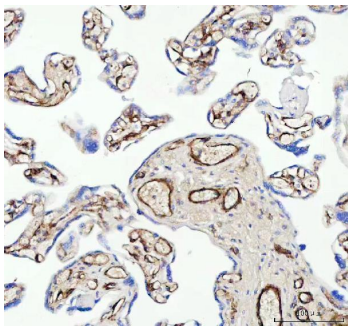
Anti-CD146 MCAM Rabbit Monoclonal Antibody (M01683-1) Images



Western blot analysis of CD146 using anti-CD146 antibody (M01683-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U2OS whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human A549 whole cell lysates, Lane 5: rat lung tissue lysates, Lane 6: rat spleen tissue lysates, Lane 7: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD146 antigen affinity purified monoclonal antibody (Catalog # M01683-1) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CD146 at approximately 120 kDa. The expected band size for CD146 is at 72 kDa.



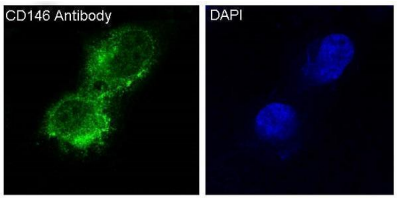
IHC analysis of CD146 using anti-CD146 antibody (M01683-1). CD146 was detected in a paraffin-embedded section of human melanoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-CD146 Antibody (M01683-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



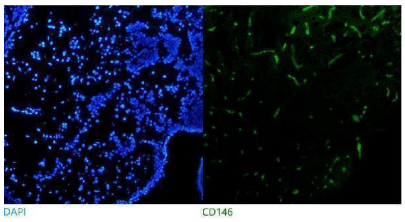
IHC analysis of CD146 using anti-CD146 antibody (M01683-1). CD146 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-CD146 Antibody (M01683-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Immunofluorescent analysis of A375 cells, using CD146

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Antibody.



IF analysis of CD146 using anti-CD146 antibody (M01683-1). CD146 was detected in a paraffin-embedded section of zebrafish brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 5% BSA. The tissue section was then incubated with rabbit anti-CD146 Antibody (M01683-1) at a dilution of 1:50 overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Anti-CD146 MCAM Rabbit Monoclonal Antibody

For Research Use Only. Not for use in diagnostic procedures.