

Anti-CD146 MCAM Rabbit Monoclonal Antibody

Catalog Number: M01683-1

About MCAM

Furin is likely to represent the ubiquitous endoprotease activity within constitutive secretory pathways and capable of cleavage at the RX (K/R) R consensus motif.

Overview

| | |
|----------------------|--|
| Product Name | Anti-CD146 MCAM Rabbit Monoclonal Antibody |
| Reactive Species | Human, Mouse, Rat |
| 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 phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. |
| 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

| | |
|---------------------|---|
| Immunogen | A synthesized peptide derived from human CD146 |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure. |
| Purification | Affinity-chromatography |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB 1:500-1:2000 |

IHC 1:50-1:200
ICC/IF 1:50-1:200
IP 1:50
FC 1:50

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

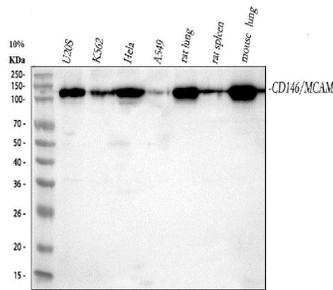


Figure 1. Western blot analysis of CD146 using anti-CD146 antibody (M01683-1).

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.

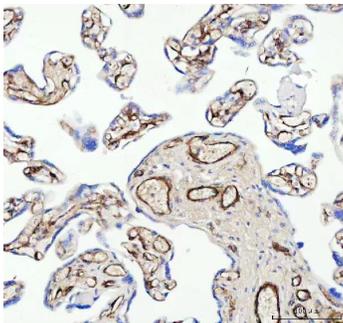
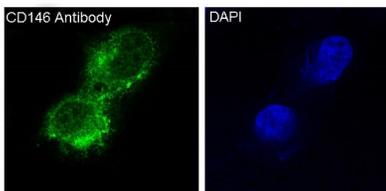


Figure 2. IHC analysis of CD146 using anti-CD146 antibody (M01683-1).

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 Antibody.

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