

## Anti-CD146/MCAM Antibody (9Q805)

### Product Details

|               |                         |
|---------------|-------------------------|
| Ig Type:      | Rabbit IgG              |
| Reactivity:   | Human                   |
| Conjugation:  | Unconjugated            |
| Clone:        | 9Q805                   |
| Purification: | Affinity-chromatography |

### Applications

|                    |  |
|--------------------|--|
| Verified Activity: | <p>1. Western Blot</p> <ul style="list-style-type: none"><li>-Positive WB detected in A375 whole cell lysate</li><li>-All lanes CD146 antibody at 0.6µg/ml</li><li>-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution</li><li>-Predicted band size: 72 KDa</li><li>-Observed band size: 120 KDa</li></ul> <p>2. IHC image of TMAH-00170 diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.</p> <p>3. Immunofluorescence staining of U251 cells with TMAH-00170 at 1:37, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).</p> <p>4. Overlay histogram showing A375 cells stained with TMAH-00170 (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of &gt;10,000 events was performed.</p> |
| Application:       | ELISA,FCM,IF,IHC,WB  |
| Recommended        | WB:1:500-1:5000; IHC:1:50-1:500; IF:1:30-1:200.  |

### Properties

|                      |   |
|----------------------|---|
| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping:            | Shipping with blue ice.   |

### Antigen Details

Immunogen: A synthetic peptide  
Antigen Species: Human  
Gene ID: 4162  
Uniprot ID: P43121  
Synonyms: melanoma cell adhesion molecule;CD146;MUC18  
Biology Area: Immunology

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### Research Background

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 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481