

## Mouse Anti-MCAM Monoclonal Antibody

CAB-745MH Mouse(MCAM)

Lot. No. (See product label)

### PRODUCT INFORMATION

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| <b>Product Overview</b>    | Mouse Anti-MCAM Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Antigen Description</b> | The CD146 antigen, also known as MCAM, is an integral membrane glycoprotein belonging to the immunoglobulin superfamily. CD146 contains the characteristic immunoglobulin-like domains (V-V-C2-C2-C2), a transmembrane region and a short cytoplasmic tail. The CD146 expression is detected in endothelial cells in vascular tissue throughout the body, and plays a role in cell adhesion, as well as in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. As a Ca <sup>2+</sup> -independent cell adhesion molecule involved in heterophilic cell to cell interactions and a surface receptor, CD146 triggers tyrosine phosphorylation of FYN and PTK2 and subsequently induced signal transduction, proteolysis, or immune recognition. CD146 is expressed predominantly on metastatic lesions and advanced primary tumours, and has been suggested to play an important role in tumour progression and the development of metastasis in certain human carcinomas. |
| <b>specificity</b>         | Human CD146/MCAM, has cross-reactivity in ELISA with Human CD66a/CEACAM1, Human CD166/alcama, Human CD106 /VCAM1, Human CD226/DNAM-1. Has cross-reactivity in WB at 100ng/lane under non-reduced conditions and reduced conditions with Human CD66a/CEACAM1, Human CD166/alcama, Human CD226 /DNAM-1. No cross-reactivity in WB and ELISA with Human BCAM/CD239, Human cell lysate (293 cell line).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Target</b>              | MCAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Immunogen</b>           | Recombinant human CD146 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Host</b>                | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>             | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Clone</b>               | MAFB4458                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>conjugation</b>         | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>        | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Preparation</b>         | This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human CD146 / MCAM extracellular domain (Met 1-Gly 559).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### PACKAGING

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| <b>Format</b>  | 0.2µm filtered solution in PBS with 5% trehalose.                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b> | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. Preservative -Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles. |

### ANTIGEN GENE INFORMATION

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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">MCAM melanoma cell adhesion molecule [ Homo sapiens ]</a>                                                                                                                                                                                                    |
| <b>Official Symbol</b> | MCAM                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | MCAM; melanoma cell adhesion molecule; cell surface glycoprotein MUC18; CD146; Gicerin; MUC18; melanoma adhesion molecule; cell surface glycoprotein P1H12; melanoma-associated antigen A32; melanoma-associated antigen MUC18; S-endo 1 endothelial-associated antigen; |

**GeneID** [4162](#)  
**mRNA Refseq** [NM\\_006500](#)  
**Protein Refseq** [NP\\_006491](#)  
**MIM** [155735](#)  
**UniProt ID** P43121  
**Chromosome Location** 11q23.3