

## MCAM (Melanoma Cell Adhesion Molecule) / MUC18 / CD146 Antibody

Mouse Monoclonal Antibody [Clone MCAM/3048]

Catalog No	Format	Size
4162-MSM8-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4162-MSM8-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4162-MSM8-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

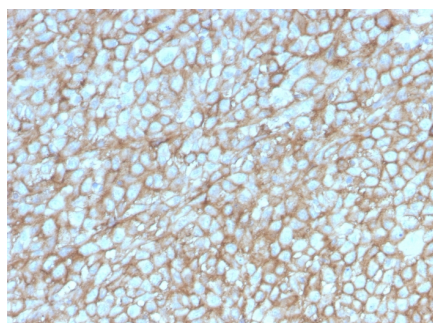
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

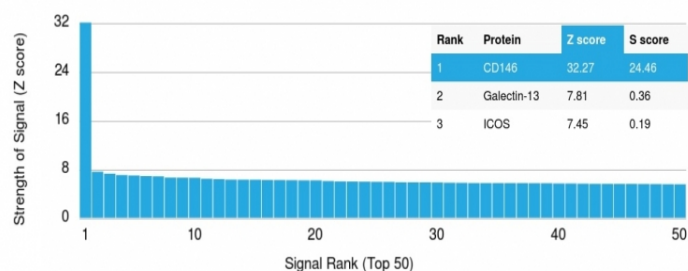
Clone	MCAM/3048
Gene Name	MCAM
Immunogen	Recombinant human MCAM protein fragment (around aa226-374) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	130kDa
Cellular Localization	Membrane
Species Reactivity	Human
Positive Control	Human skin or melanoma tissue (IHC).

\*Optimal dilution for a specific application should be determined.

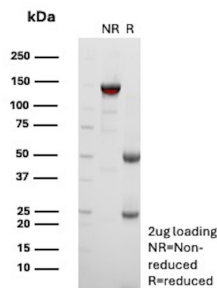
### Product Images for MCAM (Melanoma Cell Adhesion Molecule) / MUC18 / CD146 Antibody



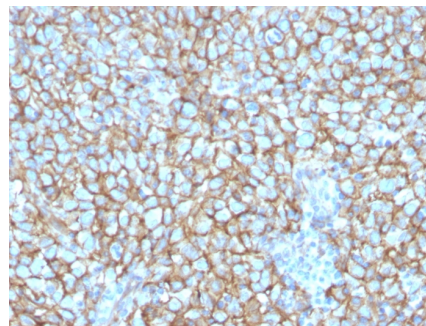
Formalin-fixed, paraffin-embedded human Melanoma stained with MCAM Mouse Monoclonal Antibody (MCAM/3048).



Analysis of Protein Array containing more than 19,000 full-length human proteins using MCAM Mouse Monoclonal Antibody (MCAM/3048). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD,  $\sigma$ s) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD,  $\sigma$ s) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to be specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



SDS-PAGE Analysis of Purified MCAM Mouse Monoclonal Antibody (MCAM/3048). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Melanoma stained with MCAM Mouse Monoclonal Antibody (MCAM/3048).

### Specificity & Comments

The human Mel-CAM gene maps to chromosome 11q23 and encodes a trans-membrane glycoprotein, also designated MCAM, MUC 18 or CD146, that belongs to the immunoglobulin superfamily and functions as a Ca<sup>2+</sup>-independent cell adhesion molecule. Mel-CAM expression is restricted to advanced primary and metastatic melanomas and to cell lines of the neuroectodermal lineage, but not normal melanocytes. Mel-CAM is found on 80% of advanced primary human melanomas and correlates well with development of metastatic disease.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Endothelial Cell Marker, Mesenchymal Stem Cell Differentiation, Signal Transduction

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.