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MUC18 / CD146 / MCAM (Melanoma Cell Adhesion Molecule) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone MCAM/1101]
Catalog # AH11786

Specification

MUC18 / CD146 / MCAM (Melanoma Cell Adhesion Molecule) Antibody - With BSA and Azide - Product Information

Application	**IHC, IF, FC**
Primary Accession	P43121
Other Accession	4162, 599039
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1, kappa**
Calculated MW	**130kDa KDa**

MUC18 / CD146 / MCAM (Melanoma Cell Adhesion Molecule) Antibody - With BSA and Azide - Additional Information

Gene ID 4162

Other Names
Cell surface glycoprotein MUC18, Cell surface glycoprotein P1H12, Melanoma cell adhesion molecule, Melanoma-associated antigen A32, Melanoma-associated antigen MUC18, S-endo 1 endothelial-associated antigen, CD146, MCAM, MUC18

Application Note
IHC~~1:100~500<br \>IF~~1:50~200<br \>FC~~1:10~50

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
MUC18 / CD146 / MCAM (Melanoma Cell Adhesion Molecule) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

MUC18 / CD146 / MCAM (Melanoma Cell Adhesion Molecule) Antibody - With BSA and Azide - Protein Information

Name MCAM

Synonyms MUC18

Function
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 a surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration.

Cellular Location
Membrane; Single-pass type I membrane protein.

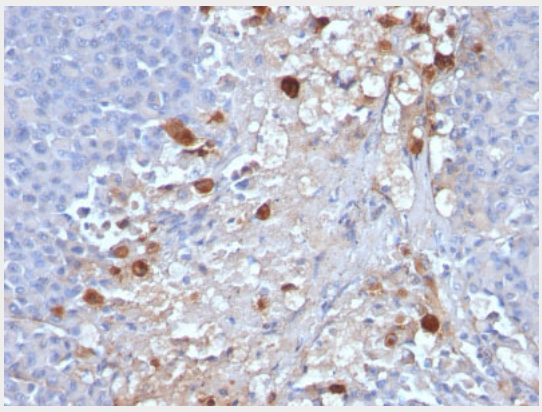
Tissue Location
Detected in endothelial cells in vascular tissue throughout the body. May appear at the surface of neural crest cells during their embryonic migration. Appears to be limited to vascular smooth muscle in normal adult tissues. Associated with tumor progression and the development of metastasis in human malignant melanoma. Expressed most strongly on metastatic lesions and advanced primary tumors and is only rarely detected in benign melanocytic nevi and thin primary melanomas with a low probability of metastasis

MUC18 / CD146 / MCAM (Melanoma Cell Adhesion Molecule) Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MUC18 / CD146 / MCAM (Melanoma Cell Adhesion Molecule) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Melanoma stained with MCAM Monoclonal Antibody (MCAM/1101)

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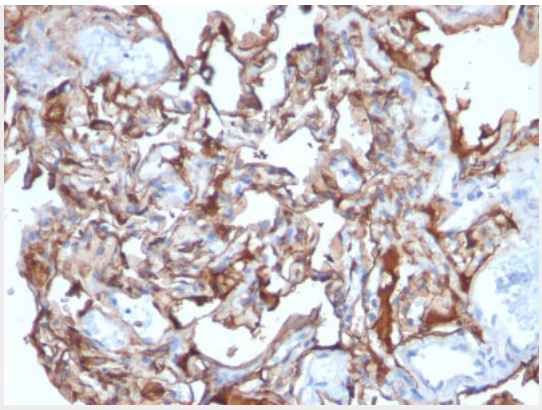
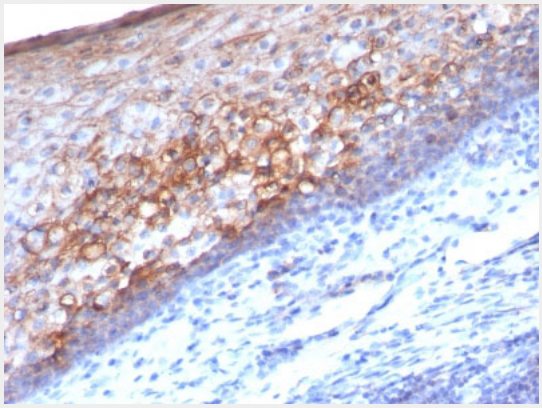


Formalin-fixed, paraffin-embedded human Melanoma stained with MCAM Monoclonal Antibody (MCAM/1101)



Formalin-fixed, paraffin-embedded human Tonsil stained with MCAM Monoclonal Antibody (MCAM/1101)

MUC18 / CD146 / MCAM (Melanoma Cell Adhesion Molecule) Antibody - With BSA and Azide - Background

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 Ca2+-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.

MUC18 / CD146 / MCAM (Melanoma Cell Adhesion Molecule) Antibody - With BSA and Azide - References

Pruszak J et al. Stem Cells 25:2257-68 (2007