

Novocastra™ Lyophilized Mouse Monoclonal Antibody CD146 (MCAM)

Product Code: NCL-CD146

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human CD146, also known as melanoma metastasis-associated surface molecule (MCAM), or Mel-CAM.
Clone	N1238
Ig Class	IgG1
Antigen Used for Immunizations	Prokaryotic recombinant fusion protein corresponding to a portion of the external domain of the human CD146 molecule.
Hybridoma Partner	Mouse myeloma (p3-NS1-Ag4-1).
Preparation	Lyophilized tissue culture supernatant containing sodium azide. Reconstitute with the volume of sterile distilled water indicated on the vial label.
Effective on Frozen Tissue	Not fully evaluated.
Effective on Paraffin Wax Embedded Tissue	Yes.
Recommendations on Use	Immunohistochemistry on paraffin sections. Heat Induced Epitope Retrieval (HIER): Please follow the instructions for use in Novocastra Epitope Retrieval Solution pH 6. Suggested dilution: 1:50 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. Visualization: Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems Web site, www.LeicaBiosystems.com <u>The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.</u>
Positive Controls	Immunohistochemistry: Appendix. Western Blotting: Melanoma
Staining Pattern	Membrane and cytoplasmic.
Storage and Stability	Store unopened lyophilized antibody at 2-8 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 2-8°C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.
Warnings and Precautions	This reagent has been prepared from the supernatant of cell culture. As it is a biological product, reasonable care should be taken when handling it. This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or available from www.LeicaBiosystems.com





B I O S Y S T E M S

General Overview

CD146 is a 113 kD type I membrane glycoprotein that belongs to the immunoglobulin superfamily. It has 2 variable type domains and 3 C2 type domains within its extracellular region, a transmembrane domain and a cytoplasmic domain. It is closely related to the human blood group glycoprotein, Lutheran. CD146 has been reported to be expressed on endothelial cells, smooth muscle and cerebellar cortex. Although CD146 functions as a cell adhesion molecule, it interacts with an as yet uncharacterised ligand.

General References

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