Datasheet for ABIN3043466

anti-MCAM antibody (AA 59-401)

3 Images

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Overview

Quantity:	100 µg
Target:	MCAM
Binding Specificity:	AA 59-401
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MCAM antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Purpose:	Anti-CD146/MCAM Antibody Picoband®
Immunogen:	E.coli-derived human CD146 recombinant protein (Position: H59-A401). Human CD146 shares 73% amino acid (aa) sequence identity with both mouse and rat CD146.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-/MCAM Antibody (ABIN3043466). Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	MCAM
Alternative Name:	MCAM (MCAM Products)
Background:	Synonyms: 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, Tissue Specificity: 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. Background: CD146 (cluster of differentiation 146), also known as the melanoma cell adhesion molecule (MCAM) or cell surface glycoprotein MUC18, is a 113 kDa cell adhesion molecule currently used as a marker for endothelial cell lineage. MCAM, a member of the immunoglobulin superfamily, is homologous to several cell adhesion molecules and is associated with tumor progression and the development of metastasis in human malignant melanoma. By radiation hybrid analysis, this gene is mapped to chromosome 11q23.3. MCAM has been demonstrated to appear on a small subset of T and B lymphocytes in the peripheral blood of healthy individuals. MCAM has been seen as a marker for mesenchymal stem cells isolated from multiple adult and fetal organs, and its expression may be linked to multipotency mesenchymal stem cells with greater differentiation potential express higher levels of MCAM on the cell surface. Sequence Similarities: Contains 3 Ig-like C2-type (immunoglobulin-like) domains.
Molecular Weight:	120 kDa
Gene ID:	4162
UniProt:	P43121

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human Western blot, 0.1-0.5 µg/mL, Human 1. Bardin, N., Anfosso, F., Masse, J.-M., Cramer, E., Sabatier, F., Le Bivic, A., Sampol, J., Dignat-George, F.Identification of CD146 as a component of the endothelial junction involved in the control of cell-cell cohesion.Blood 98: 3677-3684, 2001. 2. Kuske, M. D. A., Johnson, J.

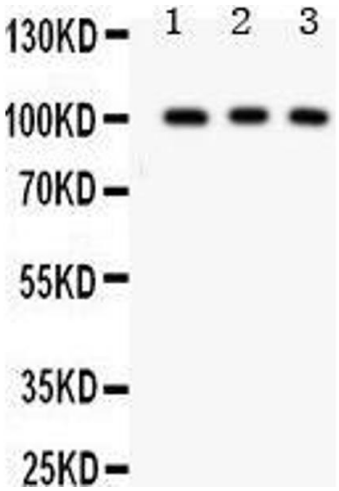
Application Details

	P.Assignment of the human melanoma cell adhesion molecule gene (MCAM) to chromosome 11 band q23.3 by radiation hybrid mapping.Cytogenet. Cell Genet. 87: 258 only, 1999. 3. Taira, E., Nagino, T., Taniura, H., Takaha, N., Kim, C.-H., Kuo, C.-H., Li, B.-S., Higuchi, H., Miki, N.Expression and functional analysis of a novel isoform of gicerin, an immunoglobulin superfamily cell adhesion molecule.J. Biol. Chem. 270: 28681-28687, 1995.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

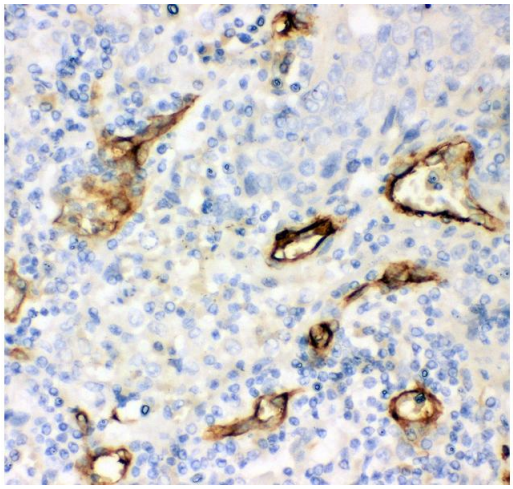
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Anti- CD146 antibody, Western blotting All lanes: Anti CD146 at 0.5ug/ml Lane 1: A375 Whole Cell Lysate at 40ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 72KD Observed bind size: 100KD



Immunohistochemistry

Image 2. Anti- CD146 antibody, IHC(P) IHC(P): Human Lung Cancer Tissue

Western Blotting

Image 3. Anti- CD146 antibody, Western blotting All lanes: Anti CD146 at 0.5ug/ml WB: Recombinant Human CD146 Protein 0.5ng Predicted bind size: 48KD Observed bind size: 48KD