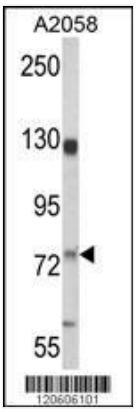
MCAM Antibody – Rabbit Polyclonal

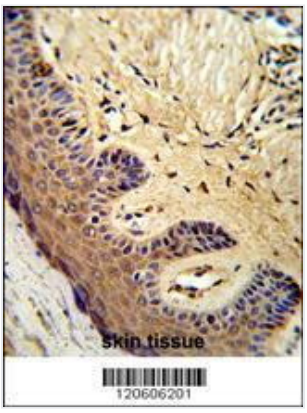
PRODUCT OVERVIEW

Product Name	MCAM, Polyclonal Antibody
Full Product Name	MCAM, ID (Cell Surface Glycoprotein MUC18, Melanoma-associated Antigen MUC18, Melanoma Cell Adhesion Molecule, Melanoma-associated Antigen A32, S-endo 1 Endothelial-associated Antigen, Cell Surface Glycoprotein P1H12, CD146, MCAM, MUC18) (MaxLight 550)
Product Gene Name	anti-MCAM antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human MCAM at ~71kD.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	61.0kDa (547aa) 70-100KDa (SDS-PAGE under reducing conditions.)
OMIM	155735
3D Structure	ModBase 3D Structure for P43121
Immunogen	Synthetic peptide corresponding to a region between corresponding to a portion of amino acids within aa168-197 from the center region of human MCAM, conjugated to KLH. Cellular Localization: Membrane; SIngle-pass type 1 membrane protein
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-MCAM antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-MCAM antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-MCAM antibody	FC/FACS: 1:10-1:50 IHC-P: 1:50-1:100 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-MCAM antibody	MBS6487300 is an antibody targeting MCAM. Also known as MCAM, ID (Cell Surface Glycoprotein MUC18, Melanoma-associated Antigen MUC18, Melanoma Cell Adhesion Molecule, Melanoma-associated Antigen A32, S-endo 1 Endothelial-associated Antigen, Cell Surface Glycoprotein P1H12, CD146, MCAM, MUC18) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MCAM antibody	1. Fritzsche, F.R., Pathology 40(5), 457-464 (2008). 2. Malyszko, J., Clin. Appl. Thromb. Hemost. 14(3), 338-345 (2008). 3. Guezguez, B., J. Immunol. 179(10), 6673-6685 (2007).

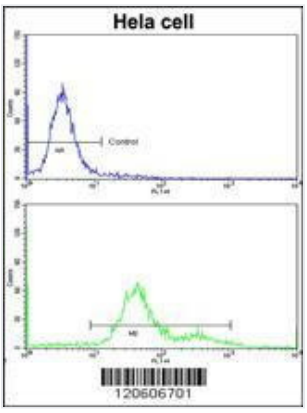
Other Notes	Small volumes of anti-MCAM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MCAM antibody
Western blot analysis of MCAM Antibody (Center) in A2058 cell line lysates (35ug/lane). MCAM (arrow) was detected using the purified Pab.(2ug/ml)



Immunohistochemistry (IHC) of anti-MCAM antibody
Formalin-fixed and paraffin-embedded human skin reacted with MCAM Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-MCAM antibody
Flow cytometric analysis of hela cells using MCAM Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCAM. It may not necessarily be applicable to this product.

NCBI GI #	71274107
NCBI GeneID	4162
NCBI Accession #	NP_006491
UniProt Primary Accession #	P43121
UniProt Secondary Accession #	O95812; Q59E86; Q6PHR3; Q6ZTR2
UniProt Related Accession #	P43121
GenBank Nucleotide #	NM_006500.2
NCBI Official Full Name	cell surface glycoprotein MUC18
NCBI Official Synonym Full Names	melanoma cell adhesion molecule
NCBI Official Symbol	MCAM

NCBI Official Synonym Symbols	CD146; MUC18
UniProt Protein Name	Cell surface glycoprotein MUC18
UniProt Synonym Protein Names	Cell surface glycoprotein P1H12; Melanoma cell adhesion molecule; Melanoma-associated antigen A32; Melanoma-associated antigen MUC18; S-endo 1 endothelial-associated antigen; CD_antigen: CD146
Protein Family	Cell surface glycoprotein
UniProt Gene Name	MCAM
UniProt Synonym Gene Names	MUC18
UniProt Entry Name	MUC18_HUMAN
NCBI Protein Information	cell surface glycoprotein MUC18
UniProt Comments for MCAM	MCAM: 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 surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: extracellular space; focal adhesion; integral to membrane; plasma membrane; nucleus; external side of plasma membrane Biological Process: anatomical structure morphogenesis; glomerular filtration; angiogenesis; cell adhesion; positive regulation of cell migration
Research Articles on MCAM	**1.** We demonstrate that ER(+) breast cancers contain two CAF subtypes defined by CD146 expression. CD146(neg) CAFs suppress ER expression in ER(+) breast cancer cells, decrease tumor cell sensitivity to estrogen, and increase tumor cell resistance to tamoxifen therapy
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