MCAM Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	MCAM, Blocking Peptide
Full Product Name	MCAM Antibody (Center) Blocking Peptide
Product Gene Name	MCAM blocking peptide
Product Synonym Gene Name	MUC18
Product Synonym 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
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the Center region of human MCAM. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	MCAM peptide (MBS9224810) is used for blocking the activity of MCAM antibody (MBS9207632)
Molecular Weight	57,605 Da
OMIM	155735
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
Related Product Information for MCAM blocking peptide	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.
Other Notes	Small volumes of MCAM blocking peptide 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.
Searchable Terms for MCAM purchase	MBS9224810 is a blocking peptide targeting MCAM. Also known as MCAM Antibody (Center) Blocking Peptide.

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: external side of plasma membrane; focal adhesion Biological Process: anatomical structure morphogenesis; angiogenesis; glomerular filtration
Research Articles on MCAM	**1.** CD146 is a novel and useful marker for predicting senescence in human umbilical cord blood-derived Mesenchymal stem cells (hUCB-MSCs), and CD146 can potentially be applied in quality-control assessments of hUCB-MSC-based therapy.
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