

Recombinant Human MCAM Protein, C-His-tagged

Cat. No. MCAM-099H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human MCAM Protein with C-His tag was expressed in E. coli.

Species Human

Source E.coli

Description

Melanoma cell adhesion molecule (MCAM, MUC18, CD146) is an immunoglobulin superfamily member originally described as a cell surface adhesion protein and marker of the progression and metastasis of melanoma. Expression of MCAM protein is seen in vascular endothelial cells, activated T lymphocytes, smooth muscle, and bone marrow stromal cells. Research studies demonstrate increased MCAM expression in endothelial cells from angiogenesis-related disorders, including inflammatory bowel disease, Crohn's disease, rheumatoid arthritis, tumors, and chronic renal failure. MCAM-expressing human mesenchymal stromal cells (hMSC) in the hematopoietic microenvironment are responsible for maintaining the self-renewal of hematopoietic stem and progenitor cells (HSPC) through direct contact between hMSC and HSPC. Related studies suggest that activation of the Notch signaling pathway may also, in part, play a role in HSPC maintenance. Additional research indicates that MCAM may play a role in multiple sclerosis, an autoimmune inflammatory disease that affects central nervous system neurons. Endothelial MCAM within the blood-brain barrier act as adhesion receptors that permit lymphocytes to transigrate across the barrier and produce the inflammatory lesions that characterize the disorder.

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Molecular Mass	~59 kDa
AA Sequence	<p> VPGEAEQPAPELVEVEVGSTALLKCGLSQSQGNLSHVDWFSVHKEKRTLIFRVRQG QGQSEPGEYEQRLSLQDRGATLALTQVTPQDERIFLCQGKRPRSQEYRIQLRVYKA PEEPNIQVNPLGIPVNSKEPEEVATCVGRNGYPIPVQVIWYKNGRPLKEEKNRVHIQS SQTVESSGLYTLQSILKAQLVKEDKDAQFYCELNYRLPSGNHMKESREVTVPVFYPT EKVVLEVEPVGMLKEGDRVEIRCLADGNPPPHFSISKQNPSTREAAEEETTNDNGVL VLEPARKEHSGRYECQGLDLDTMISLLSEPQELLVNYVSDVRVSPAAPERQEGSSLT LTCEAESSQDLEFQWLREETGQVLERGPVLQLHDLKREAGGGYRCVASVPSIPGLN RTQLVNVAIFGPPWMAFKERKVVVKENMVLNLSCEASGHRPTISWNVNGTASEQ DQDPQRVLSTLNVLVTPELLETTGVECTASNDLGKNTSILFLELVNLTTLTPDSNTTTG LSTSTASPHTRANSTSTERKLPEPESRG </p>
Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Concentration	≥0.5 mg/mL
Storage Buffer	PBS, 4M Urea, pH7.4
GENE INFORMATION	
Gene Name	MCAM melanoma cell adhesion molecule [Homo sapiens (human)]
Official Symbol	MCAM

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Synonyms	MCAM; melanoma cell adhesion molecule; cell surface glycoprotein MUC18; CD146; Gicerin; MUC18; melanoma adhesion molecule; cell surface glycoprotein P1H12; melanoma-associated antigen A32; melanoma-associated antigen MUC18; S-endo 1 endothelial-associated antigen;
Gene ID	4162
mRNA Refseq	NM_006500
Protein Refseq	NP_006491
MIM	155735
UniProt ID	P43121

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