CD166 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CD166 (ALCAM), Blocking Peptide
Full Product Name	CD166 Antibody (N-term) Blocking Peptide
Product Gene Name	ALCAM blocking peptide
Product Synonym Gene Name	MEMD
Product Synonym Names	CD166 antigen; Activated leukocyte cell adhesion molecule; CD166; ALCAM; MEMD
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 N-term region of human CD166. 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	CD166 peptide (MBS9224914) is used for blocking the activity of CD166 antibody (MBS9213892)
Molecular Weight	33,878 Da
OMIM	601662
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Spleen, placenta, liver, and weakly in liver. Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells. Expressed by neurons in the brain. Restricted expression in tumor cell lines. Preferentially expressed in highly metastasizing melanoma cell lines.
Related Product Information for ALCAM blocking peptide	Cell adhesion molecule that binds to CD6. Involved in neurite extension by neurons via heterophilic and homophilic interactions. May play a role in the binding of T- and B-cells to activated leukocytes, as well as in interactions between cells of the nervous system.
Other Notes	Small volumes of ALCAM 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 ALCAM purchase	MBS9224914 is a blocking peptide targeting ALCAM. Also known as CD166 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	118572629
NCBI GeneID	214
NCBI Accession #	Q13740.2
UniProt Primary Accession #	Q13740
UniProt Secondary Accession #	O60892; Q1HGM8; Q1HGM9; Q6PEY4; Q6ZS95; B2RNS3; B4DTU0
UniProt Related Accession #	Q13740
NCBI Official Full Name	CD166 antigen
NCBI Official Synonym Full Names	activated leukocyte cell adhesion molecule

NCBI Official Symbol	ALCAM
NCBI Official Synonym Symbols	MEMD; CD166
UniProt Protein Name	CD166 antigen
UniProt Synonym Protein Names	Activated leukocyte cell adhesion molecule; CD_antigen: CD166
Protein Family	CD166 antigen
UniProt Gene Name	ALCAM
UniProt Entry Name	CD166_HUMAN
NCBI Protein Information	CD166 antigen
NCBI Summary for ALCAM	This gene encodes activated leukocyte cell adhesion molecule (ALCAM), also known as CD166 (cluster of differentiation 166), which is a member of a subfamily of immunoglobulin receptors with five immunoglobulin-like domains (VVC2C2C2) in the extracellular domain. This protein binds to T-cell differentiation antigene CD6, and is implicated in the processes of cell adhesion and migration. Multiple alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, Aug 2011]
UniProt Comments for ALCAM	ALCAM: Cell adhesion molecule that binds to CD6. Involved in neurite extension by neurons via heterophilic and homophilic interactions. May play a role in the binding of T- and B-cells to activated leukocytes, as well as in interactions between cells of the nervous system. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 3q13.1 Cellular Component: axon; focal adhesion; immunological synapse; integral to plasma membrane; intrinsic to plasma membrane; T cell receptor complex Molecular Function: protein binding; receptor binding Biological Process: axon extension involved in axon guidance; cell adhesion; heterophilic cell adhesion; retinal ganglion cell axon guidance; signal transduction
Research Articles on ALCAM	**1.** The binding sites on CD6 and CD166 have been characterized to show that a SNP in CD6 causes glycosylation that hinders the CD6/CD166 interaction.
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