CD166 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	CD166, Blocking Peptide
Full Product Name	CD166 Blocking Peptide
Product Gene Name	CD166 blocking peptide
Product Synonym Gene Name	ALCAM
Product Synonym Names	Activated leukocyte cell adhesion molecule; ALCAM; ALCAM protein; CD 166; CD166; CD166 antigen; CD166_HUMAN; FLJ3851; FLJ38514; MEMD; MGC71733
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 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
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 (MBS9622543) is used for blocking the activity of CD166 antibody (MBS9603825)
Molecular Weight	583
Chromosome Location	Chromosome: 3; NC_000003.11 (105085557..105295757). Location: 3q13.1
OMIM	601662
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD166 blocking peptide	Blocking/Control
Related Product Information for CD166 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of CD166 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 CD166 purchase	MBS9622543 is a blocking peptide targeting CD166.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD166. It may not necessarily be applicable to this product.

NCBI GI #	343168770
NCBI GeneID	214
NCBI Accession #	NP_001230209.1
UniProt Primary Accession #	Q13740

UniProt Secondary Accession #	O60892; Q1HGM8; Q1HGM9; Q6PEY4; Q6ZS95; B2RNS3; B4DTU0
UniProt Related Accession #	Q13740
GenBank Nucleotide #	NM_001243280.1
NCBI Official Full Name	CD166 antigen isoform 2
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
Protein Family	CD166 antigen
UniProt Gene Name	ALCAM
UniProt Synonym Gene Names	MEMD
UniProt Entry Name	CD166_HUMAN
NCBI Protein Information	CD166 antigen
UniProt Comments for CD166	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: Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 3q13.1 Cellular Component: focal adhesion; cell soma; axon; integral to membrane; external side of plasma membrane Molecular Function: protein binding; receptor binding Biological Process: axon guidance; motor axon guidance; signal transduction; cell adhesion
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