CD166/ALCAM (ALCAM) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD166/ALCAM, Polyclonal Antibody
Full Product Name	Anti-CD166/ALCAM Antibody, Rabbit Polyclonal
Product Gene Name	anti-ALCAM antibody
Product Synonym Names	CD166/ALCAM Antibody, Rabbit PAb, Antigen Affinity Purified; activated leukocyte cell adhesion molecule; Anti-CD166 Antibody; Anti-MEMD Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human CD166/ALCAM
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	33,878 Da
OMIM	601662
3D Structure	ModBase 3D Structure for Q13740
Immunogen	Recombinant Human CD166/ALCAM protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human CD166/ALCAM (rh CD166/ALCAM). CD166/ALCAM specific IgG was purified by Human CD166/ALCAM affinity chromatography.
Applications Tested/Suitable for anti-ALCAM antibody	ELISA (EIA)
Application Notes for anti-ALCAM antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-ALCAM antibody	Activated leukocyte cell adhesion molecule (ALCAM)/Cluster of differentiation (CD166) is a type I transmembrane cell adhesion molecule belonging to the Ig superfamily and a ligand for CD6 that is expressed on T lymphocytes. The extracellular domain of ALCAM contains five Ig-like domains (three Ig-like C2-type domains and two Ig-like V-type domains), of which the amino-terminal V1 domain is essential for ligand binding and ALCAM-mediated cell aggregation. ALCAM mediates both heterophilic (ALCAM-CD6) and homophilic (ALCAM-ALCAM) cell-cell interactions. ALCAM/CD6 interaction plays a role in T cell development and T cell regulation, as well as in the binding of T-and B-cells to activated leukocytes. Recently, homophilic (ALCAM-ALCAM) adhesion was shown to play important roles in tight cell-to-cell interaction and regulation of stem cell differentiation. While expressed in a wide variety of tissues, ALCAM is usually restricted to subsets of cells involved in dynamic growth and/or migration, including neural development, branching organ development, hematopoiesis, immune response and tumor progression. And CD166 is regarded as a potential novel breast cancer indicator and therapeutic target.

Product References and Citations for anti-ALCAM antibody	Swart GW. (2002) Activated leukocyte cell adhesion molecule (CD166/ALCAM): developmental and mechanistic aspects of cell clustering and cell migration. Eur J Cell Biol. 81(6): 313-21.Fujiwara H, et al. (2003) Human blastocysts and endometrial epithelial cells express activated leukocyte cell adhesion molecule (ALCAM/CD166). J Clin Endocrinol Metab. 88(7): 3437-43.Jezierska A, et al. (2006) ALCAM/CD166 protects breast cancer cells against apoptosis and autophagy. Med Sci Monit. 12(8): BR263-73.Kahlert C, et al. (2009) Increased expression of ALCAM/CD166 in pancreatic cancer is an independent prognostic marker for poor survival and early tumour relapse. Br J Cancer. 101(3): 457-64.
Other Notes	Small volumes of anti-ALCAM 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.
Searchable Terms for ALCAM purchase	MBS8100392 is an antibody targeting ALCAM. Also known as Anti-CD166/ALCAM Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	68163411
NCBI GeneID	214
NCBI Accession #	NP_001618.2
UniProt Primary Accession #	Q13740
UniProt Secondary Accession #	O60892; Q1HGM8; Q1HGM9; Q6PEY4; Q6ZS95; B2RNS3; B4DTU0
UniProt Related Accession #	Q13740
GenBank Nucleotide #	NM_001627.3
NCBI Official Full Name	CD166 antigen isoform 1
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
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: 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
Research Articles on ALCAM	**1.** These show high p21 and CD166 expression at the pretreatment biopsy were associated with tumor regression and poor prognosis in patients treated with 5-FU based chemoradiotherapy
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