

Mouse anti-Human CD166/ALCAM Monoclonal Antibody | anti-ALCAM antibody

Anti-CD166/ALCAM Antibody (APC), Mouse Monoclonal

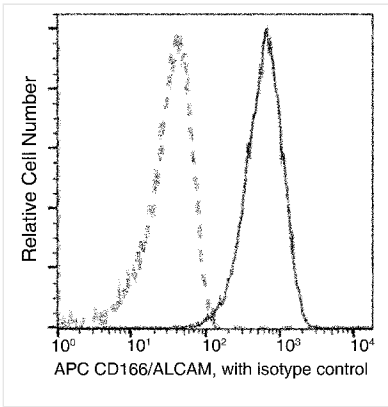
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254244	Mouse	Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD166/ALCAM; Monoclonal Antibody; Anti-CD166/ALCAM Antibody (APC); Mouse Monoclonal; CD166/ALCAM Antibody (APC); Mouse MAb; activated leukocyte cell adhesion molecule; Anti-CD166 Antibody; Anti-MEMD Antibody; anti-ALCAM antibody

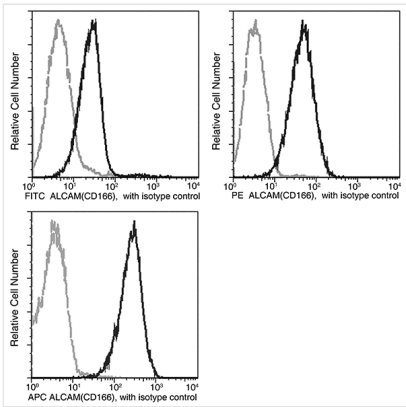
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	03
Specificity	Human CD166/ALCAM
Purity/Purification	Protein A
Form/Format	Liquid; Aqueous solution containing 0.5% BSA and 0.09% sodium azide
Concentration	5ul/Test, 0.1mg/ml (varies by lot)
Applicable Applications for anti-ALCAM antibody	FCM/FACS (Flow Cytometry)
Immunogen	Recombinant Human CD166/ALCAM protein
Conjugation	APC
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD166/ALCAM (rh CD166/ALCAM) and conjugated with APC under optimum conditions, the unreacted APC was removed.
Preparation and Storage	This antibody can be stored at 2-8 degree C for twelve months without detectable loss of activity. Protected from prolonged exposure to light. Do not freeze! Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human CD166/ALCAM expression on Jurkat cells. Cells were stained with APC-conjugated anti-Human CD166/ALCAM. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



Application Data

Profile of anti-ALCAM (CD166) reactivity on Jurkat cells analyzed by flow cytometry.

ADDITIONAL INFORMATION

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.
References	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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	68163411
NCBI GeneID	214
NCBI Accession #	NP_001618.2
NCBI GenBank Nucleotide #	NM_001627.3
UniProt Accession #	Q13740; O60892; Q1HGM8; Q1HGM9; Q6PEY4; Q6ZS95; B2RNS3; B4DTU0
Molecular Weight	33,878 Da
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

NCBI Protein Information	CD166 antigen
UniProt Protein Name	CD166 antigen
UniProt Gene Name	ALCAM
UniProt Synonym Gene Names	MEMD
UniProt Entry Name	CD166_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd166-alcam-antibody-clone-03-flow-cytometry-elisa/254244>