

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

CD166, Human, mAb AZN-L50

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77767	Mouse	Human	Western Blot, Immunoprecipitation, Immunofluorescence, Flow Cytometry, Functional Assay

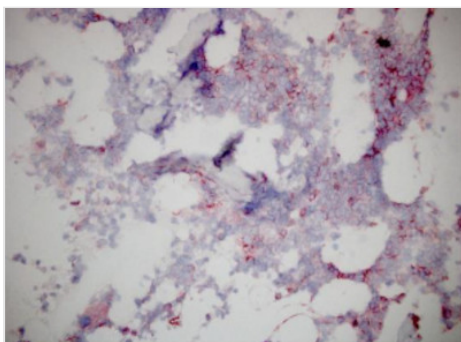
PRODUCT SYNONYMS

CD166; Monoclonal Antibody; Human; mAb AZN-L50; Activated leukocyte cell adhesion molecule; ALCAM; CD166.; anti-CD166 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2a
Purity/Purification	Protein G
Form/Format	1 ml (100 ug/ml) 0.2 um filtered antibody solution in PBS, containing 0.1% bovine serum albumin For unit size 0.5 mg or larger: PBS only (concentration< 0.5mg/ml)
Concentration	100 ug/mL (varies by lot)
Sequence Length	133
Applicable Applications for anti-CD166 antibody	WB (Western Blot), IP (Immunoprecipitation), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	CD166 expressing K562 cells
Endotoxin	<0.4EU/mg
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for one year.

IMAGES


IHC (Immunohistochemistry)

IHC: Human CD166 (ALCAM) in bone marrow cells. Staining with monoclonal antibody AZN-L50.

Application notes								
Reference #	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
5	2,6	1	1,2,4,6	1,3,4			4	1,2,6
Yes	*	*	*	*	*		*	*
No								
N.D.						*		

N.D. = Not Determined; IHC = Immunohistochemistry; IF = Frozen sections; IP = Paraffin sections; IF = Immunofluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immunoprecipitation; W = Western blot

Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD166 antibody	Product Description: The monoclonal antibody AZN-L50 recognizes activated leukocyte cell adhesion molecule (ALCAM), a member of the immunoglobulin superfamily and has a characteristic VVC2C2C2 domain structure. ALCAM is a type I transmembrane protein of 100 kDa with five extracellular immunoglobulin-like domains and a short cytoplasmic tail. ALCAM mediates homotypic ALCAM-ALCAM interactions and heterotypic interactions with the T-cell antigen CD6. Homotypic interactions are involved in the development and maintenance of tissue architecture and tumor progression. Heterotypic interactions initiate and stabilize T-cell-dendritic interactions affecting T-cell activation. ALCAM is secreted as a NH2-terminal fragment of 30 kD. Soluble ALCAM (sALCAM) induces divergent biological signals and responses. ALCAM shows a characteristic, temporal and spatial distribution in development of a wide variety of tissues and cells in health and disease. ALCAM is expressed on a wide variety of cells, within the leukocyte population its expression is particularly high on dendritic cells. ALCAM is involved in various physiological processes including hematopoieses, thymus development, the immune response, neurite extension, neural cell migration, embryogenesis, neurogenesis, angiogenesis, osteogenesis and is a marker for pluripotent mesenchymal stem cells. The monoclonal antibody AZN-L50 completely blocks homophilic ALCAM-ALCAM interaction.
References	1. Kempen van, L et al; Molecular basis for the homophilic activated leukocyte cell adhesion molecule (ALCAM)-ALCAM interaction. J Biol Chem 2001, 276: 25783 2. Lunter, P et al; Activated leukocyte cell adhesion molecule (ALCAM/CD166/MEMD), a novel actor in invasive growth, controls matrix metalloproteinase activity. Cancer Res 2005, 65: 8801 3. Zimmerman, A et al; Long-term engagement of CD6 and ALCAM is essential for T-cell proliferation induced by dendritic cells. Blood 2006, 107: 3212 4. Riet te, J et al; Distinct kinetic and mechanical properties govern ALCAM-mediated interactions as shown by single-molecule force spectroscopy. J Cell Sci 2007, 120: 3965 5. Bladergroen, B et al; Spatially separated distribution and highly flexible expression of adhesion molecules facilitates dynamic hematopoiesis. J Med Sci 2007, 7:1239 6. Kilsdonk van, J et al; Attenuation of melanoma invasion by a secreted variant of activated leukocyte cell adhesion molecule. Cancer Res 2008, 68:3671

NCBI AND UNIPROT INFORMATION

NCBI GI #	343168776
NCBI GeneID	214
NCBI Accession #	NP_001230212.1
NCBI GenBank Nucleotide #	NM_001243283.1
Molecular Weight	33,878 Da
NCBI Official Full Name	CD166 antigen isoform 4
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.