

Rabbit CD166 Polyclonal Antibody | anti-ALCAM antibody

CD166 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289727	Rabbit	Human (Predicted Reactivity: Bovine, Mouse, Rabbit, Rat)	Immunohistochemistry, Western Blot, ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

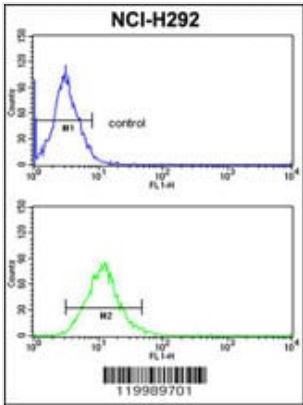
CD166; Polyclonal Antibody; CD166 Antibody (N-term); CD166 antigen; Activated leukocyte cell adhesion molecule; ALCAM; MEMD; anti-ALCAM antibody

PRODUCT SPECIFICATIONS

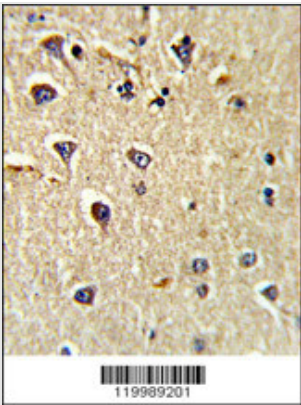
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse, Rabbit, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CD166 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58-87 amino acids from the N-terminal region of human CD166.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	58-87
Sequence Length	305
Applicable Applications for anti-ALCAM antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)
Cellular Location	Cell membrane; Single- pass type I membrane protein. Cell projection, axon {ECO:0000250 UniProtKB:Q61490}. Cell projection, dendrite {ECO:0000250 UniProtKB:Q61490}. Note=Detected at the immunological synapse, i.e, at the contact zone between antigen-presenting dendritic cells and T-cells (PubMed:15294938, PubMed:16352806) Colocalizes with CD6 and the TCR/CD3 complex at the immunological synapse (PubMed:15294938).
Tissue Location	Detected on hematopoietic stem cells derived from umbilical cord blood (PubMed:24740813). Detected on lymph vessel endothelial cells, skin and tonsil (PubMed:23169771) Detected on peripheral blood monocytes (PubMed:15048703). Detected on monocyte-derived dendritic cells (at protein level) (PubMed:16352806). Detected at low levels in spleen, placenta, liver (PubMed:9502422). Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells (PubMed:7760007). Isoform 1 and isoform 3 are detected in vein and artery endothelial cells, astrocytes, keratinocytes and artery smooth muscle cells (PubMed:15496415). Expressed by neurons in the brain. Restricted expression in tumor cell lines. Detected in highly metastasizing melanoma cell lines (PubMed:9502422)

Function	Cell adhesion molecule that mediates both heterotypic cell-cell contacts via its interaction with CD6, as well as homotypic cell-cell contacts (PubMed: , PubMed:15496415, PubMed: , PubMed:16352806, PubMed: , PubMed:24945728). Promotes T-cell activation and proliferation via its interactions with CD6 (PubMed:, PubMed:16352806, PubMed:). Contributes to the formation and maturation of the immunological synapse via its interactions with CD6 (PubMed: , PubMed:16352806). Mediates homotypic interactions with cells that express ALCAM (PubMed: , PubMed:16352806). Required for normal hematopoietic stem cell engraftment in the bone marrow (PubMed:24740813). Mediates attachment of dendritic cells onto endothelial cells via homotypic interaction (PubMed:). Inhibits endothelial cell migration and promotes endothelial tube formation via homotypic interactions (PubMed: , PubMed:23169771). Required for normal organization of the lymph vessel network. Required for normal hematopoietic stem cell engraftment in the bone marrow. Plays a role in hematopoiesis;required for normal numbers of hematopoietic stem cells in bone marrow. Promotes in vitro osteoblast proliferation and differentiation (By similarity). Promotes neurite extension, axon growth and axon guidance; axons grow preferentially on surfaces that contain ALCAM. Mediates outgrowth and pathfinding for retinal ganglion cell axons (By similarity).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

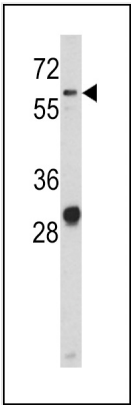
IMAGES



FCM/FACS (Flow Cytometry)
CD166 Antibody (N-term) flow cytometric analysis of NCI-H292 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with CD166 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of CD166 antibody (N-term) in NCI-H460 cell line lysates (35ug/lane). CD166 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-ALCAM antibody	CD166 is cell adhesion molecule that binds to CD6. The protein is involved in neurite extension by neurons via heterophilic and homophilic interactions. It 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.
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Product Categories/Family for anti-ALCAM antibody	Immunology
References	Kahlert,C., Br. J. Cancer 101 (3), 457-464 (2009) Kulasingham,V., Int. J. Cancer 125 (1), 9-14 (2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	343168770
NCBI GeneID	214
NCBI Accession #	NP_001230209.1 ; NP_001618.2
NCBI GenBank Nucleotide #	NM_001243280.1
UniProt Accession #	Q13740 ; O60892 ; Q1HGM8 ; Q1HGM9 ; Q6PEY4 ; Q6ZS95 ; B2RNS3 ; B4DTU0
Molecular Weight	65102
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
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://stage.aaabiotech.com/polyclonal/cd166-antibody-immunohistochemistry-western-blot-flow-cytometry-elisa/289727>