

Rabbit CD166/ALCAM Polyclonal Antibody | anti-CD166/ALCAM antibody

Anti-CD166/ALCAM Picoband Antibody

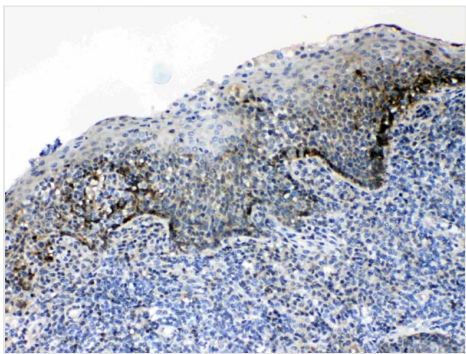
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124669	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

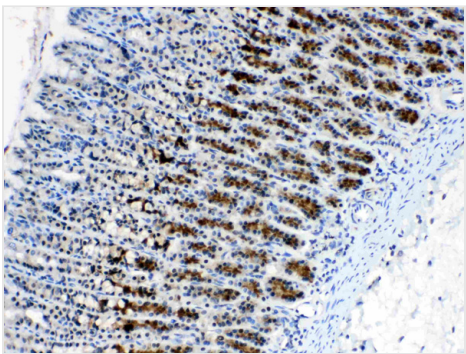
CD166/ALCAM; Polyclonal Antibody; Anti-CD166/ALCAM Picoband Antibody; CD166 antigen; Activated leukocyte cell adhesion molecule; CD166; ALCAM; MEMD; anti-CD166/ALCAM antibody

PRODUCT SPECIFICATIONS

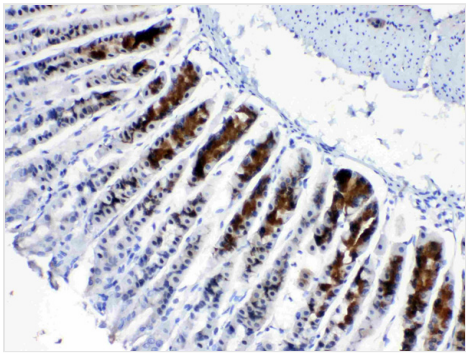
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	305
Applicable Applications for anti-CD166/ALCAM antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	E Coli-derived human CD166/ALCAM recombinant protein (Position: N167-E406). Human CD166/ALCAM shares 90.8% amino acid (aa) sequence identity with both mouse and rat CD166/ALCAM.
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Spleen, placenta, liver, and weakly in liver. Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells. Expressed by neurons in the brain. Restricted expression in tumor cell lines. Preferentially expressed in highly metastasizing melanoma cell lines.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



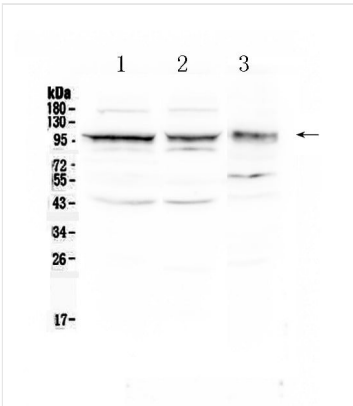
IHC (Immunohistochemistry)
Figure 4. IHC analysis of CD166/ALCAM using anti- CD166/ALCAM antibody (AAA124669).CD166/ALCAM was detected in paraffin-embedded section of human tonsil tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- CD166/ALCAM Antibody (AAA124669) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of CD166/ALCAM using anti- CD166/ALCAM antibody (AAA124669).CD166/ALCAM was detected in paraffin-embedded section of rat gaster tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- CD166/ALCAM Antibody (AAA124669) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of CD166/ALCAM using anti- CD166/ALCAM antibody (AAA124669).CD166/ALCAM was detected in paraffin-embedded section of mouse gaster tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- CD166/ALCAM Antibody (AAA124669) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of CD166/ALCAM using anti- CD166/ALCAM antibody (AAA124669).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat brain tissue lysates,Lane 2: mouse brain tissue lysates,Lane 3: A549 whole Cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- CD166/ALCAM antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CD166/ALCAM at approximately 100KD. The expected band size for CD166/ALCAM is at 65KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CD166/ALCAM antibody	Description: 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. Protein Function: 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.
Product Categories/Family for anti-CD166/ALCAM antibody	Immunology; Adaptive Immunity; B Cells; Immunology; T Cells; Kits/Lysates/Other; ELISA Kits; cd markers ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	343168770
NCBI GeneID	214
NCBI Accession #	NP_001230209.1
NCBI GenBank Nucleotide #	NM_001243280.1
UniProt Accession #	Q13740; O60892; Q1HGM8; Q1HGM9; Q6PEY4; Q6ZS95; B2RNS3; B4DTU0
Molecular Weight	65102 MW
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

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-alcam-antibody-western-blot-immunohistochemistry-elisa/124669>