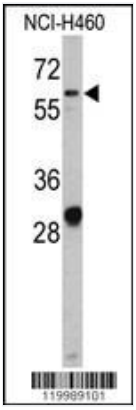
CD166 Antibody – Rabbit Polyclonal

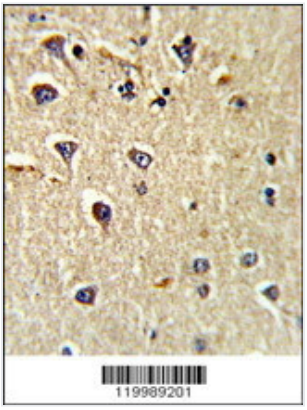
PRODUCT OVERVIEW

Product Name	CD166, Polyclonal Antibody
Full Product Name	CD166, NT (ALCAM, MEMD, CD166 antigen, Activated leukocyte cell adhesion molecule, CD166) (APC)
Product Gene Name	anti-CD166 antibody
Product Synonym Gene Name	ALCAM
Product Synonym Names	ALCAM; MEMD; CD166 antigen; Activated leukocyte cell adhesion molecule; CD166
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	65,102 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (105085557..105295757). Location: 3q13.1
OMIM	601662
3D Structure	ModBase 3D Structure for Q13740
Immunogen	CD166 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 65~95 amino acids from the N-terminal region of human ALCAM.
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-CD166 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD166 antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CD166 antibody	FC/FACS: 1:10-50 ELISA: 1:1,000 IHC: 1:50-100 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-CD166 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.
Product References and Citations for anti-CD166 antibody	Kahlert, C., Br. J. Cancer 101 (3), 457-464 (2009). Kulasingam, V., Int. J. Cancer 125 (1), 9-14 (2009).

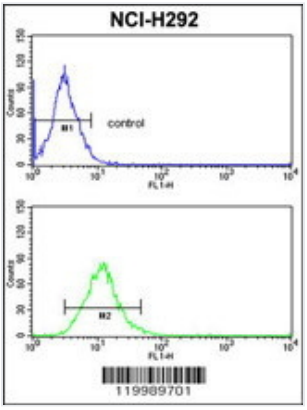
Other Notes	Small volumes of anti-CD166 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD166 purchase	MBS6282829 is an antibody targeting CD166. Also known as CD166, NT (ALCAM, MEMD, CD166 antigen, Activated leukocyte cell adhesion molecule, CD166) (APC). Reactive in Human. Host: Rabbit.



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



Immunohistochemistry (IHC) of anti-CD166 antibody
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.



Flow Cytometry (FC/FACS) of anti-CD166 antibody
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD166. It may not necessarily be applicable to this product.

NCBI GI #	886258
NCBI GeneID	214
NCBI Accession #	AAB59499.1
UniProt Primary Accession #	Q13740
UniProt Secondary Accession #	O60892; Q1HGM8; Q1HGM9; B2RNS3; B4DTU0
UniProt Related Accession #	Q13740
NCBI Official Full Name	alcam
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 CD166	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 CD166	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 CD166	**1.** retention of intact ALCAM was associated with improved survival
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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