

Rabbit anti-Mouse VCAM1 Monoclonal Antibody | anti-VCAM1 antibody

Recombinant Anti-VCAM1 Antibody, Rabbit Monoclonal

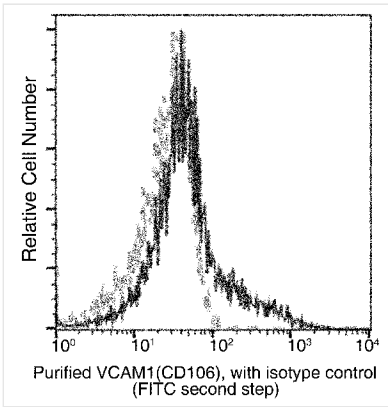
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257101	Rabbit	Mouse	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

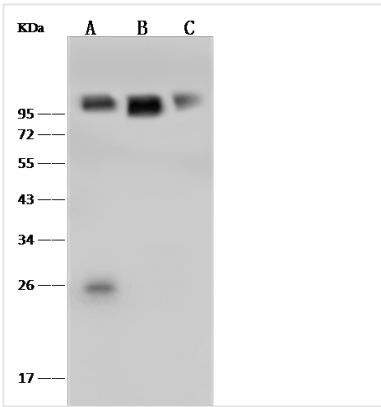
VCAM1; Monoclonal Antibody; Recombinant Anti-VCAM1 Antibody; Rabbit Monoclonal; VCAM1/VCAM-1/CD106 Antibody; Rabbit MAb; vascular cell adhesion molecule 1; Anti-CD106 Antibody; Anti-Vcam-1 Antibody; anti-VCAM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	049
Specificity	Mouse VCAM1/VCAM-1/CD106
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-VCAM1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse VCAM1/VCAM-1/CD106 Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse VCAM1/VCAM-1/CD106 (rM VCAM1/VCAM-1/CD106).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of Mouse VCAM1(CD106) expression on BABL/c bone marrow cells. Cells were stained with purified anti-Mouse VCAM1(CD106), then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



WB (Western Blot)
Anti-VCAM1 rabbit monoclonal antibody at 1:500 dilution
Lane A: NIH 3T3 Whole Cell Lysate
Lane B: Mouse brain tissue lysate
Lane C: Mouse kidney tissue lysate
Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 81 kDa
Observed band size: 100 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-VCAM1 antibody	Vascular cell adhesion molecule 1 (VCAM-1), also known as CD106, is a cell surface sialoglycoprotein belonging to the immunoglobulin superfamily. Two forms of VCAM-1 with either six or seven extracellular Ig-like domains are generated by alternative splicing, with the longer form predominant. VCAM-1 is an endothelial ligand for very late antigen-4 (VLA-4) and alpha4beta7 integrin expressed on leukocytes, and thus mediates leukocyte-endothelial cell adhesion and signal transduction. VCAM-1 expression is induced on endothelial cells during inflammatory bowel disease, atherosclerosis, allograft rejection, infection, and asthmatic responses. During these responses, VCAM-1 forms a scaffold for leukocyte migration. VCAM-1 also activates signals within endothelial cells resulting in the opening of an "endothelial cell gate" through which leukocytes migrate. VCAM-1 has been identified as a potential anti-inflammatory therapeutic target, the hypothesis being that reduced expression of VCAM-1 will slow the development of atherosclerosis. In addition, VCAM-1-activated signals in endothelial cells are regulated by cytokines indicating that it is important to consider both endothelial cell adhesion molecule expression and function during inflammatory processes.
References	Cook-Mills JM. (2002) VCAM-1 signals during lymphocyte migration: role of reactive oxygen species. Mol Immunol. 39(9): 499-508. Preiss DJ, et al. (2007) Vascular cell adhesion molecule-1: a viable therapeutic target for atherosclerosis? Int J Clin Pract. 61(4): 697-701.

NCBI AND UNIPROT INFORMATION

NCBI GI #	170295823
NCBI GeneID	22329
NCBI Accession #	NP_035823.3
NCBI GenBank Nucleotide #	NM_011693.3
UniProt Accession #	P29533
Molecular Weight	38,372 Da
NCBI Official Full Name	vascular cell adhesion protein 1
NCBI Official Synonym Full Names	vascular cell adhesion molecule 1
NCBI Official Symbol	Vcam1
NCBI Official Synonym Symbols	CD106; Vcam-1
NCBI Protein Information	vascular cell adhesion protein 1

UniProt Protein Name	Vascular cell adhesion protein 1
UniProt Gene Name	Vcam1
UniProt Synonym Gene Names	Vcam-1; V-CAM 1; VCAM-1
UniProt Entry Name	VCAM1_MOUSE

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/monoclonal/vcam1-antibody-clone-049-flow-cytometry-western-blot-elisa/257101>