

Rat anti-Mouse CD106/VCAM-1 Monoclonal Antibody

Rat Anti-Mouse CD106/VCAM-1-UNLB

CATALOG # AAA78662	HOST Rat	REACTIVITY Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD106/VCAM-1; Monoclonal Antibody; Rat Anti-Mouse CD106/VCAM-1-UNLB; Rat Anti-Mouse CD106/VCAM-1 - Purified; Unlabeled Antibody; Rat Anti-Mouse CD106/VCAM-1; anti-CD106/VCAM-1 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat Fisher IgG1 kappa
Clone Number	M/K-2
Specificity	Mouse CD106; Mr 100-110kDa
Form/Format	Purified (UNLB) Antibody
Applicable Applications for anti-CD106/VCAM-1 antibody	FCM/FACS (Flow Cytometry)
Immunogen	BALB/3T3 and +/- 2.4 cells
Characterization	To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reference by flow cytometry.
Preparation and Storage	The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8 degree C. The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8 degree C. The R-phycoerythrin (R-PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8 degree C. Do not freeze! The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Aliquot and store at or below -20 degree C. Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20 degree C immediately upon receipt. Each reagent is stable for the period shown on the bottle label if stored as directed.

ADDITIONAL INFORMATION

Related Product Information for anti-CD106/VCAM-1 antibody	CD106/VCAM-1 (~Mr 100-kDa) VCAM-1 is an adhesion molecule and a major mediator of the inflammatory response. It is expressed on activated microvascular endothelial cells in response to signals arising from immune responses in infection, graft rejection, tumor recognition and killing. The complementary binding ligand for VCAM-1 is VLA-4/CD49d. In addition to VCAM-1, VLA-4 also recognizes the extracellular matrix molecule fibronectin. This pairing of VCAM-1 and VLA-4 is able to provide a second signal (i.e., non-antigen specific) for T cell stimulation, such as that seen in transplantation. The monoclonal antibody MK-2 has been used in transplant studies to suppress cardiac rejection and induce long-term cardiac graft survival. In addition to inflammatory responses, VCAM-1 has a significant role in hemopoiesis through its ability to retain lymphocyte and myeloid precursors on stromal cells in the marrow and lymphoid organs. CD106/VCAM-1 exists as an integral membrane protein. The M/K-2 monoclonal antibody immunoprecipitates a peptide that gives a single band on SDS-PAGE gels with an apparent Mr of ~100 kDa under reducing conditions and 92 kDa under nonreducing conditions. ^1-5
References	1. Miyake, K., I.L. Weissman, J.S. Greenberger and P. W. Kincade. 1991. J. Exp. Med. 173:599. 2. Miyake, K., et al.. 1991. J. Cell. Biol. 114(3):557. 3. Schlegel, P.G., et al. 1995. J. Immunol. 155:3856. 4. Bergese, S., et al. 1995. Am J. Phathol. 146:989. 5. Orosz, C.G., et al. 1993. Transplantation 56:453.

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/cd106-vcam-1-antibody-clone-m-k-2-flow-cytometry-elisa/78662>