

Rat anti-Mouse CD106/VCAM-1 Monoclonal Antibody

Rat Anti-Mouse CD106/VCAM-1-FITC

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78663	Rat	Mouse	Immunoprecipitation, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD106/VCAM-1; Monoclonal Antibody; Rat Anti-Mouse CD106/VCAM-1-FITC; Rat Anti-Mouse CD106/VCAM-1 - FITC; Rat Anti-Mouse CD106/VCAM-1; anti-CD106/VCAM-1 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG1 kappa
Clone Number	M/K-2
Specificity	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
Form/Format	The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3.
Applicable Applications for anti-CD106/VCAM-1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Preparation and Storage	Store at 2-8°C.

ADDITIONAL INFORMATION

Related Product Information for anti-CD106/VCAM-1 antibody	CD106, also known as 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 (e.g., 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 non-reducing conditions.
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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-immunoprecipitation-immunofluorescence-flow-cytometry-elisa/78663>