

## Monoclonal Antibody to CD106 / VCAM1 - Aff - Purified

<b>Alternate names:</b>	INCAM-100, L1CAM, V-CAM 1, VCAM-1, Vascular cell adhesion protein 1
<b>Catalog No.:</b>	SM1178P
<b>Quantity:</b>	0.2 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	CD106 (known as VCAM1) is important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with the integrins alpha4 beta1 (beta 1 integrin VLA4) and alpha4 beta7 on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/VLA4 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation. VCAM1 is also expressed by several non endothelial cell types including some macrophages, follicular dendritic cells and bone marrow, stromal cells.
<b>Uniprot ID:</b>	<a href="#">P19320</a>
<b>NCBI:</b>	<a href="#">NP_001069.1</a>
<b>GeneID:</b>	<a href="#">7412</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	1.G11B1
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Affinity Chromatography on Protein A. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative and 0.1% BSA as stabilizer.
<b>Applications:</b>	<b>ELISA.</b> <b>Immunoprecipitation.</b> <b>Flow Cytometry</b> (1/10-1/50). <b>Immunohistochemistry on Frozen Tissues.</b> <b>Functional Assays:</b> This antibody inhibits cellular adhesion mediated by VCAM-1. Removal of Sodium Azide is recommended prior to use. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises Human VCAM-1, a 110 kD molecule whose ligand is VLA-4. The antigen is expressed on activated endothelial cells and some tissue macrophages, bone marrow fibroblasts and myoblasts. Cross reactivity to Porcine CD106 has been reported. <b>Species:</b> Human. Other species not tested.

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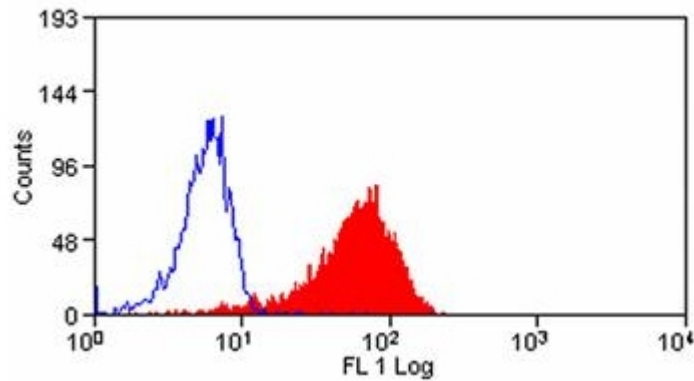
**Storage:**

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General References:**

1. Thornhill, M.H. et al. (1991). Tumor necrosis factor combines with IL-4 or IFN-gamma to selectively enhance endothelial cell adhesiveness for T-cells. The contribution of vascular cell adhesion molecule-1-dependent and independent binding mechanisms. *J. Immunol.* 146: 592-598.
2. Rosenman, S. J. et al. (1995). Cytokine-induced expression of vascular cell adhesion molecule-1 (VCAM-1) by astrocytes and astrocytoma cell lines. *J. Immunol.* 154: 1888-1899.

**Pictures:**



KM-H2 Cells stained with Mouse Anti Human CD106 (SM1178P).

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