

Monoclonal Antibody to Human CD106 (VCAM-1)

Alternate names:	INCAM-100, L1CAM, V-CAM 1, VCAM-1, Vascular cell adhesion protein 1
Catalog No.:	SM1178
Quantity:	2 ml
Background:	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.
Uniprot ID:	P19320
NCBI:	NP_001069.1
GeneID:	7412
Host / Isotype:	Mouse / IgG1
Clone:	1.G11B1
Applications:	Flow Cytometry. Immunoprecipitation. Immunohistochemistry on frozen tissues. Recommended positive control tissue: Tonsil. ELISA. Other applications not tested. Optimal dilutions of this antibody are dependent on application and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	SM1178 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. This antibody inhibits cellular adhesion mediated by VCAM-1. Removal of sodium azide is recommended prior to use in functional assays. Crossreactivity to porcine CD106 has been reported.
Storage:	Store the antibody at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Shelf live: one year from despatch.
General Readings:	1. Thornhill, M. H. et al. J. Immunol. 146: 592-598 (1991) 2. Rosenman, S. J. et al. J. Immun