

Monoclonal Antibody to CD106 / VCAM1 - FITC

Alternate names:	INCAM-100, L1CAM, V-CAM 1, VCAM-1, Vascular cell adhesion protein 1
Catalog No.:	SM1178FT
Quantity:	25 µg
Concentration:	0.1 mg/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
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography on Protein G. Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 0.1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	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.
Species Reactivity:	Tested: Human.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. 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.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

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.

3. Peterson, M. D. et al. (2005) Monocyte-induced endothelial calcium signaling mediates early xenogeneic endothelial activation. *Am. J. Transplant.* 5: 237-247.

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