

MONOCLONAL ANTIBODY CD106 (VCAM-1)

Cat. No.	Form	Quantity	Presentation
1244	Purified	0.2 mg	Freeze-dried

Clone 1G11

Isotype IgG1 (mouse)

Immunogen Stimulated HUVEC cells.

Hybridoma Myeloma NS1 x Balb/c spleen cells.

Specificity The molecular weight of the recognized antigen is 90 kDa.

This antibody recognizes VCAM-1, which is present on activated endothelial cells. VCAM-1 is an adhesion molecule which binds to the integrin $\alpha 4/\beta 1$ (VLA-4) and to the integrin $\alpha 4/\beta 7$ on lymphocytes. The 1G11 antibody has been shown to inhibit T lymphocyte adhesion to TNF stimulated endothelial cells.

Applications Adhesion studies.

Immunohistochemistry.

Buffer 1 mg/ml bovine serum albumin in phosphate buffered saline.

Reconstitution and Storage The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquotting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C.

Recommended Procedures Fluorescent microscopy/Flow Cytometry
2 μ g/5x10⁵ cells/test

References 1) Thornhill, M., Wellicome, S.M., Mahiouz, D.L., Lanchbury, J.S.S., Kyan-Aung, U., and Haskard, D.O. "TNF combines with IL-4 or IFN- γ to selectively enhance endothelial cell adhesiveness for T cells: the contribution of VCAM-1 dependent and independent binding mechanisms". 1991, *J. Immunol.*, **146**, 592.

2) This antibody has been assigned at the Vth International Workshop on Human Leucocyte Differentiation Antigens in Boston (1993). Identification number : E039

October 24, 1994

FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



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