

PERFORMANCE DATA SHEET

3248

*Monoclonal anti-human CD106(VCAM-1)**

mAb name/Clone: 1.G11B1

Isotype: Mouse IgG1

Immunogen: Human endothelial cells

CATALOG#: 327-820 (Preservative-free)

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD106 is an endothelial adhesion molecule that binds to $\alpha_4\beta_1$ & $\alpha_4\beta_7$ integrins (VLA-4) and promotes adhesion of lymphocytes, monocytes, eosinophils and basophils. CD106 is also found on follicular dendritic cells, interdigitating reticulum cells and Kupffer cells. Antibody 1.G11B1 recognizes the VCAM-1 molecule (CD106) and blocks leukocyte adhesion.

References: M.H. Thornhill, D.O. Haskard, (1991) *J Immunol* **146**: 592-598. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1764-1767. M. Nagata, et al, (1995) *J Immunol* **155**: 2194-2202. H.E. Chuluyan, et al, (1995) *J Immunol* **155**: 3135-314.

STORAGE CONDITIONS: *Store at 2 - 5°C.* Freeze/Thawing is not recommended. *Open under aseptic conditions.*

PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2µm sterile filtered and vialled under aseptic conditions.

PERFORMANCE: Cultured **human umbilical cord vein endothelial cells** were stimulated 4 hours with 10 ng/ml Phorbol 12-Myristate 13-Acetate. Cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD106 antibody at **5 µg/ml**. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011) at a 1:60 dilution factor, after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.94 log₁₀** fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration.

* *Research Use Only. Not for use in Diagnostic procedures.*

Binding of anti-CD106 mAb +GAM/FITC to stimulated HUVEC

