## PERFORMANCE DATA SHEET

1919

## 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  $\alpha_4\beta1$  &  $\alpha_4\beta7$  integrins (VLA-4) and promotes adhesion of lymphocytes, monocytes, eosinophils and basophils. CD106 is also found on follicular dendritic cells, interdigitating recticulum 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:\_\_\_\_\_

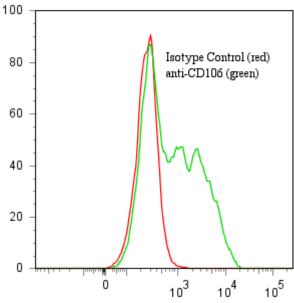
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

**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  $0.2\mu m$  sterile filtered and vialed 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  $\mu$ l of anti-CD106 antibody at **5**  $\mu$ g/ml. Cells were washed twice and incubated with 2° 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**  $\log_{10}$  fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration.

\*This Product is intended for Laboratory Research use only.

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



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