

## PERFORMANCE DATA SHEET

1818

# Monoclonal anti-human CD106(VCAM-1)/R-PE\*

**mAb name/Clone:** 1.G11B1

**Isotype:** Mouse IgG1

**Immunogen:** Human endothelial cells

**CATALOG#:** 327-050

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated reagent per  $5 \times 10^5$ -cell test)

**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. Do not freeze! Protect from light.

**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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04%  $\text{NaN}_3$  (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an  $A_{565}/A_{280}$  ratio of 3.53.

**PERFORMANCE:** Cultured human umbilical cord vein endothelial cells were stimulated 4 hours with 10 ng/ml Phorbol 12-Myristate 13-Acetate. Five  $\times 10^5$  cells per tube were harvested, washed and incubated 45 minutes on ice with 80 µl of anti-CD106/R-PE at a 1:50 dilution (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.36  $\log_{10}$  fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog # 278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD106 antibody (Catalog #327-020).

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

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

**Binding of anti-CD106/PE to stimulated HUVEC**

