

PERFORMANCE DATA SHEET

2733

Monoclonal anti-human CD36/Biotin*

mAb name/Clone: SMO

Isotype: Mouse IgMk

Immunogen: Human tonsil cells/PBM

CATALOG#: 185-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD36 is a major platelet glycoprotein also found on monocytes, macrophages and some endothelial cells. CD36 may play a role in cell adhesion as a receptor for thrombospondin. CD36 is a receptor for adhesion of malaria infected erythrocytes. CD36 is also reported to have a role in phagocytosis. Antibody SMO recognizes the CD36 molecule of 88 kd.

References: N. Hogg, et al, (1984) Immunology **53**: 753-767. P. Oquendo, et al, (1989) Cell **58**: 95-101. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1269-1289. Y. Ren, et al, (1995) J Exp Med **181**: 1857-1862.

STORAGE CONDITIONS: Store at 2 - 5°C. Do not freeze.

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, 5% Glycerol, 0.2% BSA, 0.04% Na₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was size exclusion purified to 95% Immunoglobulin by SDS-PAGE, and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10⁵ ficoll prepared human peripheral blood mononuclear cells (PBMC) were washed and pre incubated ~5 minutes with 20 µl of 250 µg/ml human IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 µl of anti-CD36/Biotin at 10 µg/ml. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-PE (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A **7.5% sub population** of cells stained positive with a mean shift of 2.3 log₁₀ fluorescent units when compared to a Mouse IgM/Biotin negative control (Catalog #290-030).

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

