## 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 proported 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.

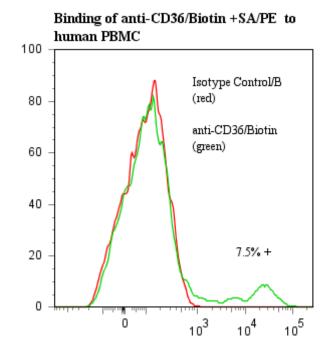
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (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 10<sup>5</sup> 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<sup>o</sup> 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** log<sub>10</sub> fluorescent units when compared to a Mouse IgM/Biotin negative control (Catalog #290-030).

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



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