

**PERFORMANCE DATA SHEET**

2116

**Monoclonal anti-human CD36/FITC\***

**mAb name/Clone:** SMO

**Isotype:** Mouse IgM

**Immunogen:** Human tonsil cells/PBM

**CATALOG#:** 185-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**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! Protect from light.**

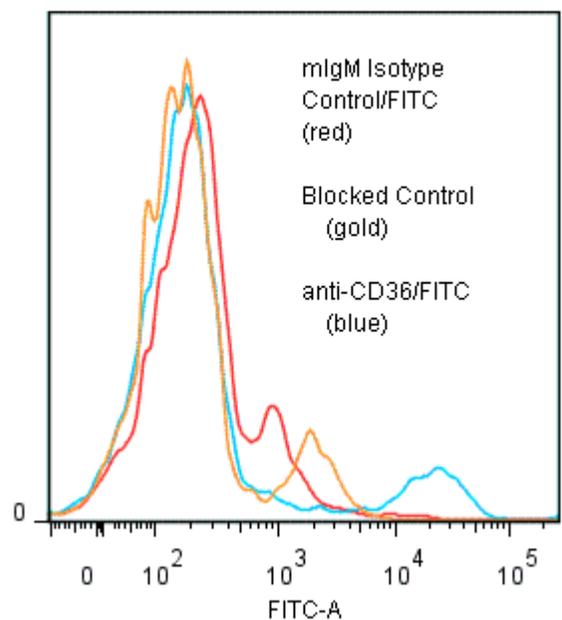
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% Na<sub>3</sub>N (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 fluorescein. Unconjugated fluorescein was separated from antibody conjugate by desalting column. The conjugate is at **0.5 mg/ml**.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared **human peripheral white blood cells** were washed and pre incubated 5 minutes with 20µl of 250µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD36/FITC at a **1:50** dilution (10 µg/ml). Cells were then washed three times, fixed and analyzed by FACS. A net **9.8%** sub population of the cells stained positive with a mean shift of **1.55** log<sub>10</sub> fluorescent units when compared to a Mouse IgM/FITC negative control (Catalog #290-040). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD36 antibody (Catalog #185-020).

**Binding of anti-CD36/FITC to human PBMC**



\* **Research use only. Not for use in Diagnostic procedures.**