## PERFORMANCE DATA SHEET

17/10



## Monoclonal anti-human CD235a (Glycophorin A)/FITC \*

mAb name/Clone: A63-B/C2

Isotype: Mouse IgM

Immunogen: Neuraminidase treated human erythrocytes

CATALOG#: 122-040

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 CD235a (glycophorin A) is a sialoglycoprotein expressed early on the cell surface during erythropoiesis as pluripotent stem cells are recruited to differentiate into erythrocytes (1). CD235a (glycophorin A) is a useful marker to study the developmental biology of hematopoietic progenitor cells (2,3). Antibody A63-B/C2 reacts with an extracellular (peptide) domain of CD235a (glycophorin A).

**References: 1.** J.G. Mark, et al, (1999) Blood 93: 4425-4435. **2.** N. Debili, et al, (1996) Blood 88: 1284-1296. **3.** B.M. Frey, et al, (1998) Blood 91: 2781-2792.

**STORAGE CONDITIONS:** *Store at 2 - 5<sup>o</sup>C*. Freeze/Thawing is not recommended. Protect from light.

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

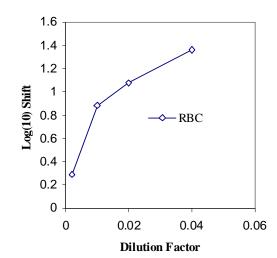
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was size exclusion purified to 90% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at **0.5 mg/ml** with a Fluorescein/IgM molar ratio of 46.6.

**PERFORMANCE:** Ten x  $10^6$  human **red blood cells** were washed and preincubated 5 minutes with 20  $\mu$ l of 250  $\mu$ g/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80  $\mu$ l of anti-CD235a (Glycophorin A)/FITC at a **1:50** dilution (10  $\mu$ g/ml). They were then washed three times, fixed and

analyzed by FACS. Cells stained positive with a mean shift of **1.08**  $\log_{10}$  fluorescent units when compared to a Mouse IgM/FITC negative control (Catalog #290-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD235a (Glycophorin A) antibody (Catalog #122-020).

Binding of anti-Glycophorin A/FITC to human Red Blood cells



<sup>\*</sup> Research Use Only. Not for use in Diagnostic procedures.