

PERFORMANCE DATA SHEET

3308

Monoclonal anti- human CD235a (Glycophorin A)*

mAb name/Clone: A63-B/C2

Isotype: Mouse IgM

Immunogen: Neuraminidase treated human erythrocytes

CATALOG#: 122-820 (Preservative-free)

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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°C. Freeze/Thawing is not recommended. Open under aseptic conditions.

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.

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was purified to 95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin) using size exclusion chromatography. Product was 0.2 µm filtered and vialled under aseptic conditions.

PERFORMANCE: Approximately $10^8 \times 10^6$ human red blood cells were washed and preincubated 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-CD235a (Glycophorin A) antibody at 10 µg/ml. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011); after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 0.9 log₁₀ fluorescent units when compared to a Mouse IgM negative control (Catalog # 290-010).

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

Binding of anti-CD235a mAb +GAM/FITC to human red blood cells

