PERFORMANCE DATA SHEET

1816

Monoclonal anti-human CD7/FITC*



mAb name/Clone: **3A1e** *Isotype:* Mouse IgG2b

Immunogen: Human HSB2-T cells

CATALOG#: 152-040
QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test

INFORMATION: Human CD7 is one of the earliest T lineage markers and is found on most thymocytes and peripheral blood T cells. The function of CD7 is not yet fully known, although cross-linking of CD7 with antibodies induces a T cell transmembrane calcium flux and CD7 expression is induced by ionomycin. Antibody 3Ale recognizes a CD7 molecule of 40 kd. Antibody 3Ale induces T cell transmembrane calcium flux. **References:** R.E. Ware, et al, (1989) J Immunol **143**: 3632-3640. R.E. Ware, et al, (1991) J Immunol **147**: 2787-2794.

STORAGE CONDITIONS: *Store at 2 - 5^{\circ}C*. Freeze/Thawing is not recommended. Protect from light.

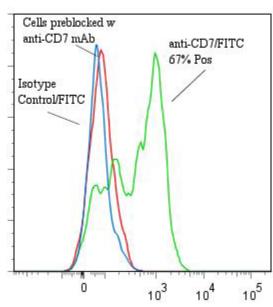
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.5 mg/ml** with a Fluorescein/Antibody molar ratio of 4.6.

PERFORMANCE: Five x 10^5 ficoll prepared peripheral blood mononuclear cells (PBMC) were washed and incubated 45 minutes on ice with 80 μ l of anti-CD7/FITC at a **1:50** dilution($10\mu g/ml$). Cells were washed three times, fixed and analyzed by FACS. A 67% sub population of the cells stained positive with a mean shift of **0.95** \log_{10} fluorescent units when compared to a Mouse IgG2b/FITC negative control (Catalog # 284-040). Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml anti-CD7 antibody (Catalog #152-020).

Binding of anti-CD7/FITC to human PBMC



^{*} Research Use Only. Not for use in Diagnostic procedures.