

## PERFORMANCE DATA SHEET

2620

## Monoclonal anti-human CD7/Biotin\*

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

Immunogen: Human HSB2-T cells

**CATALOG#: 152-030 QUANTITY: 100 μg** 

**CONCENTRATION: 1.0 mg/ml** 

**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. Ware, et al, J Immunol (1989) **143**: 3632-3634. R. Ware, et al, J Immunol (1991) **147**: 2787-2794.

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

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

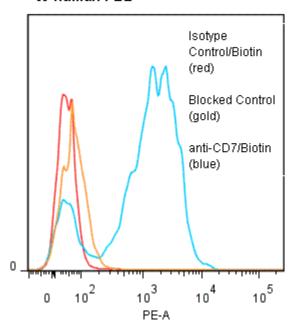
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine

immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x  $10^5$  Ficoll prepared human peripheral blood mononuclear cells were washed and incubated 45 minutes on ice with 80 μl of anti-CD7/Biotin at **5 μg/ml**. Cells were then washed twice and incubated 45 minutes with  $2^0$  reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS using a lymphoid gate. A % sub population of the cells stained positive with a mean shift of **1.7**  $\log_{10}$  fluorescent units when compared to a Mouse  $\lg G2b/Biotin$  (Catalog # 284-030) negative control. Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD7 antibody (Catalog #152-020).

## Binding of anti-CD7/Biotin +SA/PE to human PBL



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