

PERFORMANCE DATA SHEET

2621

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^oC*. 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:_____

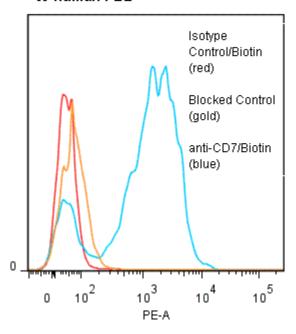
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

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 10⁵ 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^o reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS using a lymphoid gate. An 83% sub population of the cells stained positive with a mean shift of **1.7** log₁₀ fluorescent units when compared to a Mouse IgG2b/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



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