

**PERFORMANCE DATA SHEET**

2511

**Monoclonal anti-human CD7/R-PE\***

**mAb name/Clone:** 3A1e

**Isotype:** Mouse IgG2b

**Immunogen:** Human HSB2-T cells

**CATALOG#:** 152-050

**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 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°C. Do not freeze! 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, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at 0.5 mg/ml.

**PERFORMANCE:** Briefly, 5 x 10<sup>5</sup> cultured CEM human tumor cells were washed and incubated 45 minutes on ice with 80 µl of product at a 1:50 dilution (10 µg/ml). Cells were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.59 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2b/R-PE negative control (Catalog # 284-050) at a similar concentration.

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

**Binding of anti-CD7/PE to human CEM cells**

