

# 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 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 3A1e recognizes a CD7 molecule of 40 kd. Antibody 3A1e 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°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% Na<sub>3</sub> (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<sup>5</sup> ficoll prepared peripheral blood mononuclear cells (PBMC) were washed and incubated 45 minutes on ice with 80 µl of anti-CD7/FITC at a **1:50** dilution(10µg/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<sub>10</sub> 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 µl of 0.5 mg/ml anti-CD7 antibody (Catalog #152-020).

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

### Binding of anti-CD7/FITC to human PBMC

