

Monoclonal anti-human CD7*

mAb name/Clone: 3A1e

Isotype: Mouse IgG2b

Immunogen: Human HSB2-T cells

CATALOG#: 152-820 (Preservative Free)

LOT#: 164604

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 3A1e recognizes a CD7 molecule of 40 kd. Antibody 3A1e 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. Freeze/Thawing is not recommended. Open under aseptic conditions.

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.

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2µ sterile filtered and vialled under aseptic conditions.

PERFORMANCE: Five x 10⁵ ficoll prepared human peripheral blood mononuclear cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD7 antibody at **10 µg/ml**. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. A 77% sub population of the cells stained positive with a mean shift of **1.51** log₁₀ fluorescent units when compared to a Mouse IgG2b negative control (Catalog # 284-010).

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

Binding of anti-CD7 mAb +GAM/FITC to human PBMC

