## PERFORMANCE DATA SHEET

## Monoclonal anti-human CD8/FITC\*



mAb name/Clone: UCHT4 Isotype: Mouse IgG2ak

Immunogen: Human thymocytes/Sezary T cells

CATALOG#: 153-040 **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 CD8 is a heterodimeric protein consisting of an  $\alpha$  and  $\beta$  chain, each about 33 kd. CD8 is expressed on most thymocytes and on about one third of peripheral blood T cells. CD8 is a co-receptor involved in antigen recognition and binds to the  $\alpha$ 2 and  $\alpha$ 3 domain of MHC Class I molecules. Antibody UCHT4 recognizes the CD8  $\alpha$  chain of approximately 33 kd.

References: A. Fischer, et al., (1983) Immunology 48: 177-186. R. Zamoyska, (1994) Immunity 1: 243-246. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 353-356. J. Sun, et al, (1995) J Exp Med **182:** 1275-1280.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended. Protect from light.

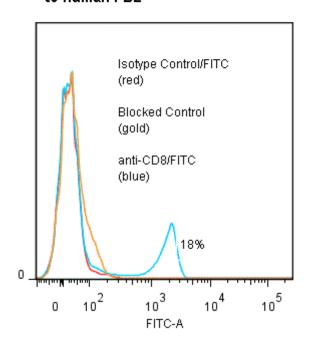
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:\_\_\_

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

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at **0.25 mg/ml** with a Fluorescein/IgG molar ratio of 10.8.

**PERFORMANCE:** Five x 10<sup>5</sup> Ficoll prepared human PBL were washed and pre incubated ~5 minutes with 20µl of 250µg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD8/FITC at a 1:50 dilution (5 µg/ml). Cells were washed three times, fixed and analyzed by FACS using a lymphoid gate. An 18% sub population of the cells stained positive with a mean shift of  $1.99 \log_{10}$  fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog # 281-040). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD8 antibody (Catalog #153-020).

## Binding of anti-CD8(UCHT4)/FITC to human PBL



Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940

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