

PERFORMANCE DATA SHEET

1550

Monoclonal anti-human CD8/FITC*

mAb name/Clone: UCHT4

Isotype: Mouse IgG2aκ

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 10⁵-cell test)

INFORMATION: Human CD8 is a heterodimeric protein consisting of an α and β 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 α2 and α3 domain of MHC Class I molecules. Antibody UCHT4 recognizes the CD8 α 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% NaN₃ (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 10⁵ 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 log₁₀ 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).

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

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

