

**PERFORMANCE DATA SHEET**

1816

**Monoclonal anti-human CD8/Biotin\***

**mAb name/Clone:** UCHT4

**Isotype:** Mouse IgG2a $\kappa$

**Immunogen:** Human thymocytes/Sezary T cells

**CATALOG#:** 153-030

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1.0 mg/ml

**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 not recommended.

**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 to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared peripheral blood mononuclear cells (PBMC) were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD8/Biotin at 5  $\mu$ g/ml. Cells were then washed twice and incubated 45 minutes with 2<sup>o</sup> reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A 25% sub population of the cells stained positive with a mean shift of 2.16 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). Binding was blocked when cells were pre incubated with 20  $\mu$ l of 0.5 mg/ml unlabeled antibody (Catalog #153-020).

*\* Research use only. Not for use in Diagnostic procedures.*

**Binding of anti-CD8(clone UCHT4)/Biotin (+SA/PE) to human PBMC**

