

**PERFORMANCE DATA SHEET**

1915

**Monoclonal anti-human CD8/R-PE\***

**mAb name/Clone:** UCHT4

**Isotype:** Mouse Mouse IgG2ak

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

**CATALOG#:** 153-050

**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 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. Do not freeze! 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.25 mg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 3.6.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human HPB-MLT cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD8/R-PE at a 1:50 dilution factor (5ug/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.25 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog # 281-050). 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.

