

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 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 $\alpha 2$ and $\alpha 3$ 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% NaN₃ (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 A₅₆₅/A₂₈₀ ratio of 3.6.

PERFORMANCE: Five x 10⁵ 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 (5µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.25** log₁₀ fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog # 281-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD8 antibody (Catalog #153-020).

**This Product is intended for Laboratory Research use only.*

R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

Binding of anti-CD8/PE to human HPB-MLT cells

