

## PERFORMANCE DATA SHEET

1814

# Monoclonal anti-human CD8\*

**mAb name/Clone:** UCHT4

**Isotype:** Mouse IgG2ak

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

**CATALOG#:** 153-820 (Preservative Free)

**QUANTITY:** 100 µg

**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 is not recommended. *Open under aseptic conditions.*

**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.

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2µ sterile filtered and vialled under aseptic conditions.

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human **HPB-MLT** cells per tube were washed and pre incubated with 20 µl human IgG at 250 µg/ml (to block non specific binding ) after which they were incubated 45 minutes on ice with 80 ml of anti-CD8 antibody at a concentration of **5 µg/ml**. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.67 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2a negative control (Catalog # 281-010) at a similar concentration.

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

**Binding of anti-CD8(clone UCHT4) antibody to human HPB-MLT tumor cells**

