

PERFORMANCE DATA SHEET

1814

Monoclonal anti-human CD8*

mAb name/Clone: UCHT4

Isotype: Mouse IgG2a κ

Immunogen: Human thymocytes/Sezary T cells

CATALOG#: 153-020

QUANTITY: 100 μ g

CONCENTRATION: 1.0 mg/ml

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. Freeze/Thawing is 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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

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 10⁵ cultured human HPB-MLT cells per tube were washed and pre incubated with 20 μ l human IgG at 250 μ g/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 μ g/ml. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive (99% net) with a mean shift of 1.67 log₁₀ 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

