PERFORMANCE DATA SHEET ¹⁹¹⁵ *Monoclonal* anti-human CD8/R-PE*



mAb name/Clone: UCHT4 *Isotype:* Mouse Mouse IgG2aκ *Immunogen:* Human thymocytes/Sezary T cells

CATALOG#: 153-050VOLUME IN VIAL: 0.2 mlQUANTITY: 120 testsVOLUME IN VIAL: 0.2 mlWORKING 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 α 2 and α 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

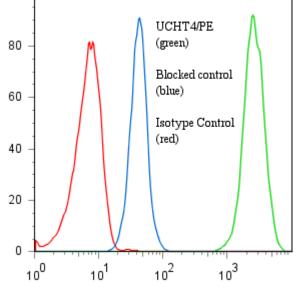
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through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.25 mg/ml** with an A_{565}/A_{280} ratio of 3.6.

PERFORMANCE: Five x 10^5 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** 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).

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





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