## PERFORMANCE DATA SHEET <sup>1816</sup> *Monoclonal* anti-human CD3/R-PE\*

*mAb name/Clone:* UCHT1 *Isotype:* Mouse IgG1 *Immunogen:* Human thymocytes/Sezary T cells

CATALOG#: 144-050 QUANTITY: 120 tests WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 105-cell test)

**INFORMATION:** The human CD3/T cell receptor (TcR) complex is made up of at least five CD3 proteins ( $\gamma$ ,  $\delta$ ,  $\varepsilon$ ,  $\eta$ ,  $\zeta$ ) in association with either  $\alpha/\beta$  or  $\gamma/\delta$  proteins of the TcR. The TcR recognizes antigens in association with MHC molecules after which protein chains of the CD3 complex mediate activation signals triggered by TcR antigen binding. CD3 is expressed on greater than 95% of circulating human peripheral T cells. Antibody UCHT1 will recognizes the 20 kd epsilon chain of the CD3 molecule complex. Antibody UCHT1 will activate T cells expressing CD3 $\varepsilon$ .

*References:* P.C.L. Beverly & R.E. Callard, (1981) Eur J Immunol **11:** 329-334. Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 290-314. A. Salmeron, et al, (1991) J Immunol **147:** 3047-3052. G. Thibault & P. Bardos, (1995) J Immunol **154:** 3814-3820.

## 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).

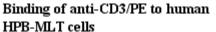
**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography.

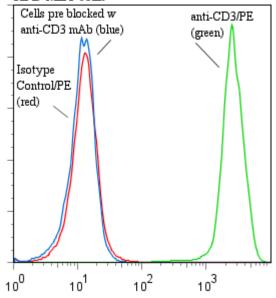
Antibody conjugate is at **500 \mug/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 3.04.

**PERFORMANCE:** Five x  $10^5$  cultured **HPB-MLT** cells were washed and pre incubated ~5 minutes with 20 µl of 250 µg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD3/R-PE at a dilution factor of **1:50** (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.34** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD3 antibody (Catalog #144-020).

\**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.





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