

**PERFORMANCE DATA SHEET**

1825

**Monoclonal anti-human CD5/Biotin\***

**mAb name/Clone:** UCHT2

**Isotype:** Mouse IgG1

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

**CATALOG#:** 150-030

**QUANTITY:** 100 µg

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD5 is believed to be an alternative signaling molecule found on all mature T cells, on most thymocytes and on a subpopulation of mature B cells expressing autoantibodies. The ligand for CD5 is CD72. Antibody UCHT2 recognizes epitope 2 of the CD5 molecule of approximately 67 kd. Antibody UCHT2 does not stimulate CD5<sup>+</sup> PBMNC.

**References:** P.C.L. Beverly & R.E. Callard. "Protides of the Biological Fluids" (1981) Vol. **29**: 653-658, H. Peeters (ed.), Pergamon Press, Oxford. Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford (1989) p. 331-338. G.S. Wood & P.S. Freudenthal, (1992) Am J Pathol **141**: 789-795. P.M. Lydyard, et al, (1993) Immunol Lett **38**: 159-166.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/thawing 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, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared human peripheral blood mononuclear cells (PBMC) were washed and pre incubated 5 minutes with 300µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of product at 5 µg/ml. Cells were then washed twice and incubated 45 minutes with 20 µl of 2<sup>o</sup> reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A net 66% sub population of the cells stained positive with a mean shift of 1.93 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog # 278-030).

\* **Research Use Only. Not for use in Diagnostic procedures.**

