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 $CD5^+$ 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:_____

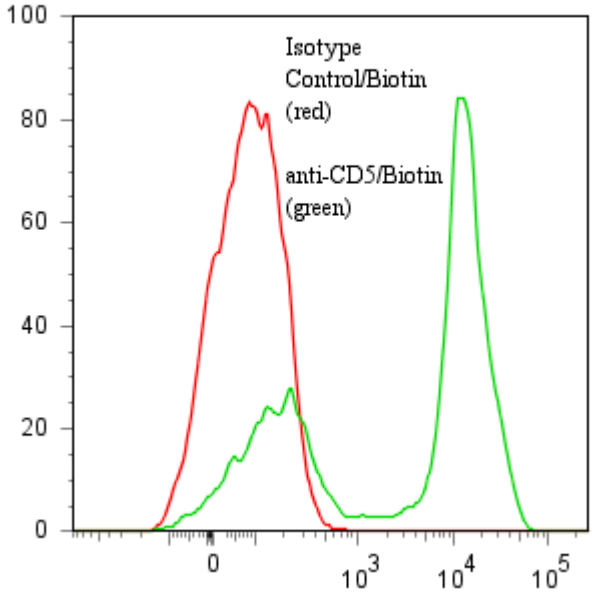
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

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 10^5 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° 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** $\log_{10}$ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog # 278-030) at a similar concentration.

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

Binding of anti-CD5/Biotin +SA/PE to human PBMC



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