PERFORMANCE DATA SHEET

1816

Monoclonal anti-human CD8/Biotin*

mAb name/Clone: UCHT4 *Isotype:* Mouse IgG2aκ

Immunogen: Human thymocytes/Sezary T cells

CATALOG#: 153-030 QUANTITY: 100 μg

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 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^oC*. Freeze/thawing not recommended.

PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

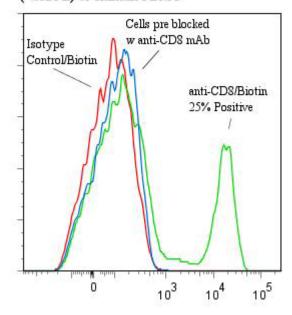
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

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 peripheral blood mononuclear cells (PBMC) were washed and incubated 45 minutes on ice with 80 μl of anti-CD8/Biotin at **5 μg/ml**. Cells were then washed twice and incubated 45 minutes with 2^0 reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A 25% sub population of the cells stained positive with a mean shift of **2.16** \log_{10} fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030) at a similar concentration. Binding was blocked when cells were pre incubated with 20 μl of 0.5 mg/ml unlabeled antibody (Catalog #153-020).

*This Product is intended for Laboratory Research use only.

Binding of anti-CD8(clone UCHT4)/Biotin (+SA/PE) to human PBMC



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