

PERFORMANCE DATA SHEET
2324

Monoclonal anti-human CD3 ϵ /APC*

mAb name/Clone: UCHT1

Isotype: Mouse IgG1

Immunogen: Human thymocytes/Sezary T cells

CATALOG#: 144-060

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6 μ l 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 (γ , δ , ϵ , η , ζ) in association with either α/β or γ/δ 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 recognize the 20 kd epsilon chain of the CD3 molecule complex. Antibody UCHT1 will activate T cells expressing CD3 ϵ .

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% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to cross-linked Allophycocyanin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at 0.5 mg/ml with an A₆₅₀/A₂₈₀ ratio of 1.38.

PERFORMANCE: Five x 10⁵ ficoll prepared human peripheral blood leukocytes (PBL) were washed and incubated 45 minutes on ice with 80 μ l of anti-CD3/APC at a 1:50 dilution (10 μ g/ml). Cells were washed three times, fixed and analyzed by FACS. A net 78% sub population of the cells stained positive with a mean shift of 2.40 log₁₀ fluorescent units when compared to Mouse IgG1/APC Isotype Control (cat #278-060). Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml anti-CD3 antibody (Catalog #144-020).

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

Binding of anti-CD3/APC to ficoll prepared human PBL

