

PERFORMANCE DATA SHEET

1816

Monoclonal anti-human CD3 F(ab')₂*

mAb name/Clone: UCHT1

Isotype: Mouse IgG1

Immunogen: Human thymocytes/Sezary T cells

CATALOG#: 144-520

0002

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

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 recognizes 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, Eur J Immunol (1981) **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. Open under aseptic conditions. Freeze/Thawing is 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. Product was sterile filtered and vialled under aseptic conditions. **No preservative added.**

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Immunoglobulin was enzymatically cleaved using Immobilized Ficin. F(ab')₂ was separated from intact antibody and Fc fragments by Protein A and Size exclusion chromatography. Purity was >90% F(ab')₂ by SDS-PAGE.

PERFORMANCE: Five x 10⁵ human **HPB-MLT** cultured tumor cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD3 F(ab')₂ at **5 µg/ml**. Cells were washed twice and incubated with 50 µl of 2^o reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.66** log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010) at a similar concentration.

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

Binding of anti-CD3 F(ab')₂ to human cell lines

