PERFORMANCE DATA SHEET
3022

Monoclonal anti-human CD3ε Fab monomer*

mAb name/Clone: **UCHT1**
Isotype: Mouse IgG1
Immunogen: Human thymocytes/Sezary T cells

CATALOG#: 144-580
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 episilon chain of the CD3 molecule complex. Antibody UCHT1 will activate T cells expressing CD3ε.
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.***

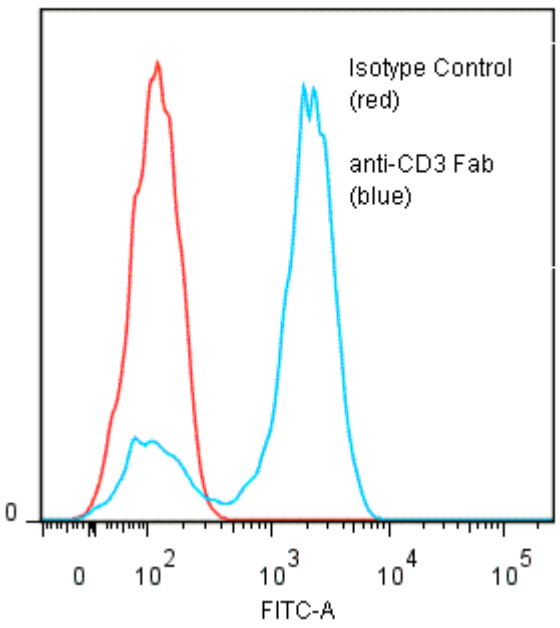
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl. Product was sterile filtered and vialed under aseptic conditions. **No preservative added.**

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Immunoglobulin was enzymaticly cleaved using Immobilized Ficin. Fab was separated from intact antibody, F(ab')2 and Fc fragments by Protein A and Size exclusion chromatography. Purity was >90% Fab by SDS-PAGE with no intact antibody observed.

PERFORMANCE: Five x 10^5 ficoll prepared human **peripheral blood mononuclear cells** per tube were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80µl of anti-CD3 Fab at **5 µg/ml**. Cells were washed twice and incubated with 50 µl of 2° reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS using a lymphoid gate. A net **80%** sub population of the cells stained positive with a mean shift of **1.26** $\log_{10}$ fluorescent units when compared to a Mouse IgG1F(ab')2 negative control (Catalog # 278-520).

Binding of anti-CD3 Fab monomer +GAM/FITC to human PBL



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