

PERFORMANCE DATA SHEET

1628

Monoclonal anti-human CD6/Biotin*

mAb name/Clone: 3F7B5 (UMCD6)

Isotype: Mouse IgG1k

Immunogen: Human rheumatoid synovial T cell line (ST-1)

CATALOG#: 151-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD6 is expressed on peripheral blood T cells, most thymocytes and a subset of B cells. CD6 is similar to CD5 and contains three cysteine-rich domains with structural homology to the macrophage scavenger receptor. CD6 is involved in T cell activation and its ligand was recently identified. Antibody UMCD6 recognizes CD6 molecules of approximately 130 kd. Antibody UMCD6 is a useful reagent to study T cell activation through CD6.

References: C.M. Bott, et al, (1993) Int Immunol **5**: 783-792. M.A. Bowen, et al, (1995) J Exp Med **181**: 2213-2220. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 419-422. G.S. Whitney, et al, (1995) J Biol Chem **270**: 18187-18190.

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% Na₃ (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 10⁵ cultured HUT 78 cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD6/Biotin at 10 µg/ml. Cells were then washed twice and incubated 45 minutes with 2^o reagent Streptavidin R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.6 log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog # 278-030) at a similar concentration. Binding was blocked when cells were pre blocked with 20 µl of 0.5 mg/ml anti-CD6 antibody (Catalog #151-020).

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

Binding of anti-CD6/Biotin to human HUT78 cells

