PERFORMANCE DATA SHEET

2321

Monoclonal anti-human CD6/R-PE*



mAb name/Clone: 3F7B5 (UMCD6)

Isotype: Mouse IgG1k

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

CATALOG#: 151-050 QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-cell test)

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. Do not freeze! Protect from light.

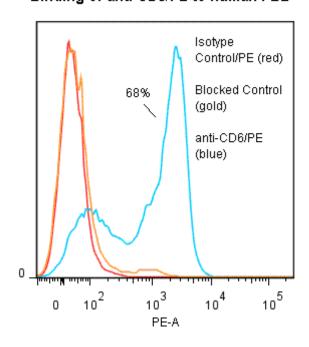
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

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 R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at approximately **0.5 mg/ml** with an A_{565}/A_{280} ratio of 3.02.

PERFORMANCE: Five x 10⁵ ficoll prepared human **PBL** per tube were pre incubated ~10 minutes with 20 μl of 300 μg/ml human IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-CD6/PE at a dilution factor of **1:50** (10 μg/ml). Cells were washed three times, fixed and analyzed by FACS using a lymphoid gate. A **68%** sub population of the cells stained positive with a mean shift of **1.88** log₁₀ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD6 antibody (Catalog #151-020).

Binding of anti-CD6/PE to human PBL



Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940

^{*} Research Use Only. Not for use in Diagnostic procedures.