

**PERFORMANCE DATA SHEET**

2122

**Monoclonal anti-human CD6\***

**mAb name/Clone:** 3F7B5 (UMCD6)

**Isotype:** Mouse IgG1κ

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

**CATALOG#:** 151-020

**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 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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin.

**PERFORMANCE:** Five x 10<sup>5</sup> ficoll prepared human peripheral blood mononuclear cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD6 antibody at 10 µg/ml. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. An 82% sub population of the cells stained positive with a mean shift of 1.34 log<sub>10</sub> fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010).

*\* Research use only. Not for use in Diagnostic procedures.*

**Binding of anti-CD6 mAb +GAM/FITC to human PBMC**

