

**PERFORMANCE DATA SHEET**  
2010

**Monoclonal anti-human CD60b/FITC \***

**mAb name/Clone:** UM4D4

**Isotype:** Mouse IgM

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

**CATALOG#:** 212-040

**QUANTITY:** 120 tests

**VOLUME IN VIAL:** 0.2 ml

**WORKING DILUTION:** 1:50 (or use 1.6µl of concentrated stock per  $5 \times 10^5$ -cell test)

**INFORMATION:** Human CD60 antigen is a glycolipid determinant found on about 30% of peripheral blood T cells. The glycolipid determinant is linked to a glycoprotein which can transduce activation signals. Antibody UM4D4 recognizes a 9-0-acetylated disialosyl group linked to the glycoprotein CD60. Antibody UM4D4 will activate T cells.

**References:** J.B. Higgs, et al, (1988) J Immunol **140**: 3758-3765. D.A. Fox, et al, (1990) Cell Immunol **128**: 480-489. B. Kniep, et al, (1993) Blood **82**: 1776-1786. E.P. Rieber & G. Rank, (1994) J Exp Med **179**: 1385-1390. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 398-404.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was size exclusion purified to 90% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at **0.5 mg/ml** with a Fluorescein/IgM molar ratio of 68:1.

**PERFORMANCE:** Five  $\times 10^5$  ficoll prepared human PBL were incubated 45 minutes on ice with 80 µl of anti-CD60b/FITC at a 1:50 dilution factor (10 µg /ml). Cells were then washed three times, fixed and analyzed by FACS. A 39% sub population of the cells stained positive with a mean shift of 2.3 log<sub>10</sub> fluorescent units when compared to a Mouse IgM/FITC negative control (Catalog #290-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD60b antibody (Catalog #212-020).

\* *Research Use Only. Not for use in Diagnostic procedures.*

**Binding of anti-CD60/FITC to ficoll prepared human PBL**

