## PERFORMANCE DATA SHEET

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## Monoclonal anti-human CD60b/Biotin\*

*mAb name/Clone:* UM4D4 *Isotype:* Mouse IgM

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

**CATALOG#: 212-030 QUANTITY: 100 μg** 

**CONCENTRATION: 1.0 mg/ml** 

**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 CDw60. 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<sup>o</sup>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:\_\_\_\_\_

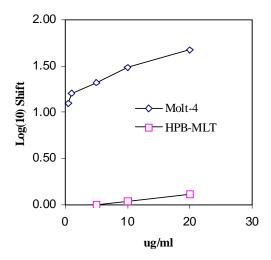
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was 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  $10^5$  cultured **Molt-4** cells were washed and incubated 45 minutes on ice with 80 μl of anti-CD60/Biotin at **20 μg/ml.** Cells were then washed twice and incubated 45 minutes with  $2^0$  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 **1.71**  $\log_{10}$  fluorescent units when compared to a Mouse IgM/Biotin negative control (Catalog #290-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD60 antibody (Catalog #212-020).

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

## Binding of anti-CD60b/Biotin to human cell lines



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