

PERFORMANCE DATA SHEET

1817

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°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% NaN₃ (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 **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^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 **1.71 log₁₀** 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

