PERFORMANCE DATA SHEET

2428

Monoclonal anti-human IgM*



mAb name/Clone: UCHB1 *Isotype:* Mouse IgG1

Immunogen: Prolymphocytic leukemic B cells

CATALOG#: 141-820 QUANTITY: 100 μg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human surface membrane bound IgM complexes with a heterodimer of transmembrane proteins of Ig α and Ig β (CD79a and CD79b) to form the B cell antigen receptor (BCR). The BCR complex plays an important role in B cell development and activation. The transmembrane region of mIgM is essential for functional BCR complex assembly. Antibody UCHB1 recognizes surface expressed IgM and can deliver a costimulatory signal to B cells in vitro(1).

References: R.J. Armitage, et al, (1988) Eur J Immunol **18**: 67-76. J. Smith-Ravin, et al, (1990) Clin Exp Immunol **82**: 181-187. A.L. DeFranco, et al, (1994) Chem Immunol **59**: 156-172. S.A. Grupp, et al, (1995) J Exp Med **181**: 161-168.

STORAGE CONDITIONS: *Store at 2 - 5^oC*. Freeze/Thawing is not recommended. **Open under aseptic conditions.**

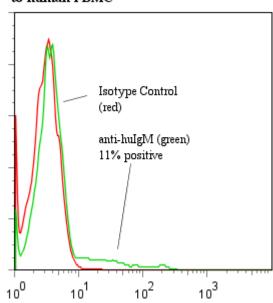
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

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. Product was $0.2~\mu m$ filtered and vialed under aseptic conditions.

PERFORMANCE: Five x 10⁵ ficoll prepared **human peripheral blood mononuclear cells** were washed and pre incubated 5 minutes with 20 μl of 250μg/ml human Ig (to block non specific binding) after which they were incubated 45 minutes on ice with 80 μl of anti-human IgM antibody at **10** μg/ml. Cells were washed twice and incubated with 2^o reagent Goat anti-Mouse/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS using a lymphocyte gate. A net **11**% sub population of the cells stained positive with a mean shift of **1.3** log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog # 278-010) at a similar concentration.

Binding of anti-human IgM +GAM/FITC to human PBMC



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