PERFORMANCE DATA SHEET

3242

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:______

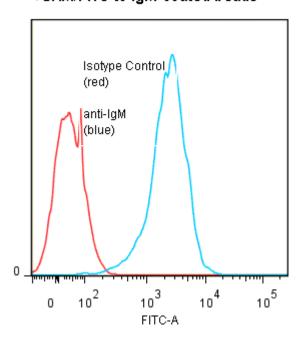
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

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 μm filtered and vialed under aseptic conditions.

PERFORMANCE: anti-IgA mAb was tested for FACS binding activity with human IgA-coated CML latex beads. Five x 10⁵ human IgA-coated CML Latex beads per tube were washed and incubated 45 minutes on ice with 80 μl of anti-IgA/ at **10** μg/ml. They were washed twice and incubated with three times, fixed and analyzed by FACS. Beads stained positive with a mean shift of anti-human IgM antibody at **10** μg/ml. 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.. Beads stained positive with a mean shift of **1.85** log₁₀ fluorescent units when compared to a Mouse IgG1 Isotype control (Catalog # 278-010).

Binding of anti-human IgM mAb +GAM/FITC to IgM-coated beads



^{*} Research Use Only. Not for use in Diagnostic procedures