

PERFORMANCE DATA SHEET

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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 Igα and Igβ (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°C.* 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 viald 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).

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

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