PERFORMANCE DATA SHEET

2423

Monoclonal anti-human IgM/Biotin*



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

Immunogen: Prolymphocytic leukemic B cells

CATALOG#: 141-030 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 and soluble human IgM. **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 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

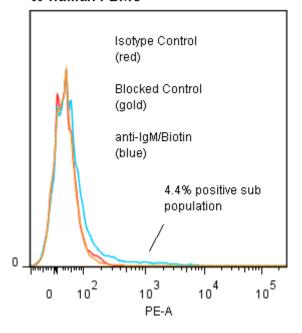
PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin.

Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10^5 ficoll prepared **human white blood cells** were washed and pre incubated 5 minutes with 20 μl of $250\mu g/ml$ human Ig after which they were incubated 45 minutes on ice with 80 μl of mIgM/Biotin at **10 μg/ml**. Cells were then washed twice and incubated 45 minutes with 2^0 reagent Streptavidin/PE (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A net **4.4%** sub population of the cells stained positive with a mean shift of **1.93** \log_{10} fluorescent units when compared to Isotype Control Mouse IgG1/Biotin (Catalog # 278-030). Binding was blocked when cells were pre incubated with an excess of unlabeled anti-IgM antibody (cat #141-020).

*Research use only. Not for use in Diagnostic procedures.

Binding of anti-IgM/Biotin +SA/PE to human PBMC



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