PERFORMANCE DATA SHEET

2525



Monoclonal anti-human CD23/Biotin*

mAb name/Clone: BU38 *Isotype:* Mouse IgG1

Immunogen: Human peripheral myeloma cells

CATALOG#: 172-030 QUANTITY: 100 μg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD23 is a low affinity receptor for IgE (FcɛRII) found primarily on mature B cells and also on eosinophils, monocytes, dendritic cells, platelets, and a subset of thymic epithelial cells. CD23 interacts with CD21. Antibody BU38 recognizes the CD23 molecule of 45 kd.

References: Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 67-81. D. L. Hardie, et al, (1993) Eur J Immunol **23**: 997-1004. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 530-538. J.Y. Bonnefoy, et al, (1995) Curr Opin Immunol **7**: 355-359.

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:_____

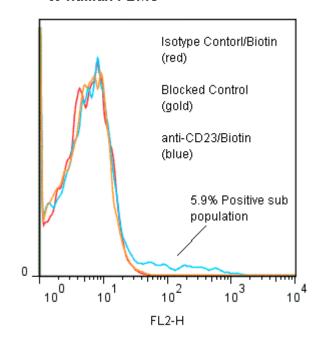
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

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 10⁵ ficoll prepared **human peripheral blood mononuclear cells** were washed and pre incubated 5 minutes with 20 μl of 300 μg/ml human IgG (to block non specific binding) after which they were washed and incubated 45 minutes on ice with 80 μl of anti-CD23/Biotin at a concentration of **5 μg/ml**. Cells were then washed twice and incubated 45 minutes with 2° reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. A net **5.9%** sub-population of the cells stained positive with a mean shift of **1.64** log₁₀ fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030). Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD23 antibody (Catalog #172-020).

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

Binding of anti-CD23/Biotin +SA/PE to human PBMC



Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940