

**PERFORMANCE DATA SHEET**

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**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 (FcεRII) 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°C. 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% NaN<sub>3</sub> (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<sup>5</sup> 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<sup>o</sup> 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 log<sub>10</sub>** 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**

