

# PERFORMANCE DATA SHEET

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## Monoclonal anti-human CD79b(BCR-Ig $\beta$ )/Biotin\*

**mAb Name/Clone:** SN8/3A2-2E7

**Isotype:** Mouse IgG1 $\kappa$

**Immunogen:** Membrane preparation of human B prolymphocytic leukemia cells

**CATALOG#:** 301-030

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD79b is the B cell antigen receptor Ig $\beta$  chain (BCR-Ig $\beta$ ) which associates with B cell antigen receptor Ig $\alpha$  chain to form a functional heterodimer that interacts with membrane immunoglobulin (mIg). The mIgM component binds antigen and the Ig $\alpha$ /Ig $\beta$  heterodimer transduces signals. Antibody SN8 recognizes the extracellular part of the BCR complex  $\beta$  chain (CD79b) which has a molecular weight of approximately 38 kd

**References:** M. Okazaki, et al, (1993) Blood **81**: 84-94. S. Vasile, et al, (1994) Mol Immunol **31**: 419-427. A.L. DeFranco, et al, (1994) Chem Immunol **59**: 156-172. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 667-675, 677-681. Chu PG, Arber DA. (2001) Appl Immunohistochem Molecul Morphol **9**: 97-106.

**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> cultured **Daudi** cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD79b/Biotin at **10  $\mu$ g/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. Cells stained positive with a mean shift of **1.89** 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  $\mu$ l of 0.5 mg/ml anti-CD79b antibody (Catalog #301-020).

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

### Binding of anti-CD79b/Biotin + SA/PE to human Daudi cells

