

PERFORMANCE DATA SHEET

2235

Monoclonal anti-human CD10(CALLA)/Biotin*

mAb Name/Clone: SN5c/L4-1A1

Isotype: Mouse IgG1κ

Immunogen: Membrane preparation of human B-lineage leukemia cells

CATALOG#: 157-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Human CD10 is a well known marker for common acute lymphoblastic leukemia antigen (CALLA). CD10 is expressed on normal early B cells in bone marrow and is also on fetal thymocytes. CD10 expression is lost as the T and B lineage cells mature and only appears again on activated germinal center B cells. CD10 is present on neutrophils. CD10 is a neutral endopeptidase and hydrolyzes peptide bonds on the amino side of hydrophobic amino acids. Antibody SN5c recognizes the 100 kd membrane-associated peptidase CD10.

References: H. Matsuzaki, et al, (1987) Cancer Research **47**: 2160-2166. W.C. Biddle, et al, (1989) Leukemia Research **13**: 699-707. H. Hara, et al, (1988) Cancer Research **48**: 4673-4680. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 505-507.

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% Na₃ (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 cultured **Raji** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD10/Biotin at a concentration of **10 µg/ml**. Cells were then washed twice and incubated 45 minutes with 2^o 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 **1.48 log₁₀** fluorescent units when compared to a Mouse IgG1/Biotin negative control (Catalog #278-030) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD10 antibody (Catalog #157-020).

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

Binding of anti-CD10/Biotin + SA/PE to human Raji cells

