PERFORMANCE DATA SHEET

Monoclonal anti-human CD10(CALLA)/Biotin*

mAb Name/Clone: SN5c/L4-1A1

Isotype: Mouse IgG1k

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:

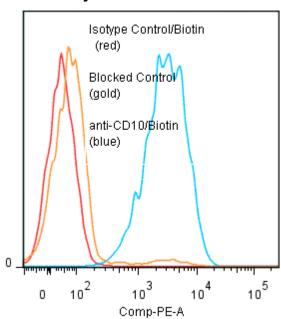
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

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 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 20 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).

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



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^{*} Research Use Only. Not for use in Diagnostic procedures.