PERFORMANCE DATA SHEET
3305

Monoclonal anti-human CD105(Endoglin)/R-PE*

mAb Name/Clone: **SN6/N1-3A1**
Isotype: Mouse IgG1κ
Immunogen: Membrane preparation of human B-lineage leukemia cells

CATALOG#: 326-050
QUANTITY: 120 tests **VOLUME IN VIAL: 0.2 ml**
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated reagent per $5x10^5$-cell test)

INFORMATION: Human CD105 (endoglin) is a homodimeric membrane glycoprotein virtually restricted to endothelial cells, and present on some leukemia cells and minor subsets of bone marrow cells. CD105 binds to TGF-β1 and β3 with high affinity. Antibody SN6 recognizes human endoglin (CD105) homodimer with a molecular weight of about 160 kd. Antibody SN6 will augment binding of TGF-β1 to CD105 expressing leukemia cells.

References: Y. Haruta & B.K. Seon, (1986) Proc Natl Acad Sci USA **83:** 7898-7902. H. Hara, et al, (1988)Cancer Res **48:** 4673-4680. W.C. Biddle, et al, (1989) Leukemia Res **13:** 699-707. S. Cheifetz, et al, (1992) J Biol Chem **267:** 19027-19030. B.K. Seon, et al, (1995) Proc Am Assoc Can Res **36:** 23. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1756-1761, 1762-1764. B.K. Seon, et al (1996) Tissue Antigens **48**: 417.

STORAGE CONDITIONS: ***Store at 2 - 5°C.*** **Do not freeze! Protect from light.**

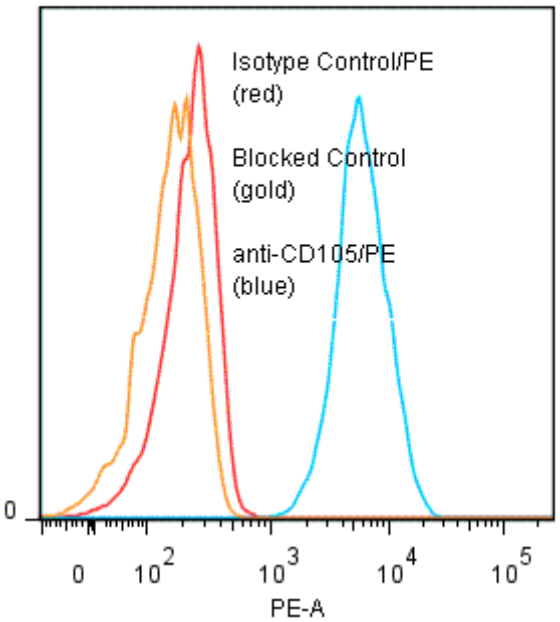
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an A_{565}/A_{280} ratio of 2.94.

PERFORMANCE: Five x 10^5 cultured human **Nalm-6** cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD105/R-PE at a dilution factor of **1:50** (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.42** $\log_{10}$ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD105 antibody (Catalog #326-020).

Binding of anti-CD105/PE to human Nalm-6 cells



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

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