

PERFORMANCE DATA SHEET

1818

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

mAb Name: SN6 **Clone:** N1-3A1

Isotype: Mouse IgG1 κ

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 1.6 μ l of concentrated reagent per 5x10⁵-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- β 1 and β 3 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- β 1 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% NaN₃ (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 A₅₆₅/A₂₈₀ ratio of 3.27.

PERFORMANCE: Five x 10⁵ cultured human Nalm-6 cells per tube were washed and incubated 45 minutes on ice with 80 μ l of anti-CD105/R-PE at a dilution factor of 1:50 (10 μ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.47 log₁₀ fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog #278-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml anti-CD105 antibody (Catalog #326-020).

*This Product is intended for Laboratory Research use only. R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

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

