

PERFORMANCE DATA SHEET

2502

Monoclonal anti-human CD105(Endoglin)/FITC***mAb Name:** SN6 **Clone:** N1-3A1**Isotype:** Mouse IgG1 κ **Immunogen:** Membrane preparation of human B-lineage leukemia cells**CATALOG#:** 326-040**QUANTITY:** 120 tests**VOLUME IN VIAL:** 0.2 ml**WORKING DILUTION:** 1:50 (or use 1.6 μ l of concentrated stock per 5 x 10⁵-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. Freeze/Thawing is not recommended. 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, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.5 mg/ml** with a fluorescein/antibody molar ratio of 4.9.

PERFORMANCE: Five x 10⁵ cultured Nalm-6 cells were washed and incubated 45 minutes on ice with 80 μ l of anti-CD105/FITC at a 1:50 dilution (10 μ g/ml). Cells were then washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.78** log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040). 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).

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

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