

## PERFORMANCE DATA SHEET

1818

### *Monoclonal anti-human CD105(Endoglin)\**

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

**Isotype:** Mouse IgG1 $\kappa$

**Immunogen:** Membrane preparation of human B-lineage leukemia cells

**CATALOG#:** 326-020

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1.0 mg/ml

**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- $\beta$ 1 and  $\beta$ 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- $\beta$ 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.

**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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured **Nalm-6** human tumor cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD105 antibody at a concentration of **10  $\mu$ g/ml**. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed using by FACS. Cells stained positive with a mean shift of **0.79 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration.

*\*This Product is intended for Laboratory Research use only.*

**Binding of anti-CD105 mAb +  
GAM/FITC to human Nalm-6 cells**

