## PERFORMANCE DATA SHEET <sup>1817</sup> *Monoclonal* anti-human CD58(LFA-3)/FITC\*

*mAb name/Clone:* **TS2/9.1.4.3** *Isotype:* Mouse IgG1 *Immunogen:* Human cytolytic T cells

## CATALOG#: 210-040 QUANTITY: 120 tests WORKING DILUTION: 1:50 (or use 1.6μl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD58 is a cell surface glycoprotein that functions as an adhesion molocule and mediates costimulatory activity through its ligand CD2, which is expressed on T and natural killer cells (1,2). CD58 has wide cellular distribution on both hemopoietic and non-hemopoietic cells with strong expression on macrophages and memory T cells. Antibody TS2 recognizes the CD58 glycoprotein of about 60-70 kd and will inhibit HLA-DR mediated T cell cytotoxicity. *References:* (1) Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 414-415. (2) A.R. Arulanandam, et al (1994) J Exp Med 180:1861-1871.

**STORAGE CONDITIONS:** Store at 2 - 5<sup>o</sup>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:\_\_\_\_\_\_

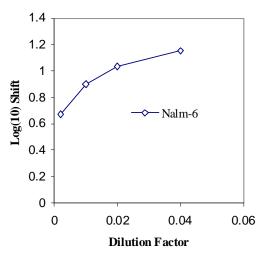
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**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/IgG molar ratio of 5.7.

**PERFORMANCE:** Five x  $10^5$  cultured **Nalm-6** cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD58/FITC at a **1:50** dilution factor (20 µg/ml). Cells were washed three times, fixed and analyzed FACS Calibur. Cells stained positive with a mean shift of **1.0** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD58 antibody (Catalog #210-020).

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





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