## PERFORMANCE DATA SHEET

3312

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## Monoclonal anti-human CD58(LFA-3)/R-PE\*

mAb name/Clone: TS2/9.1.4.3

**Isotype:** Mouse IgG1

Immunogen: Human cytolytic T cells

CATALOG#: 210-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.4 ml

WORKING DILUTION: 1:25 (or use 3.2μl 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^{\circ}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:\_\_\_\_\_

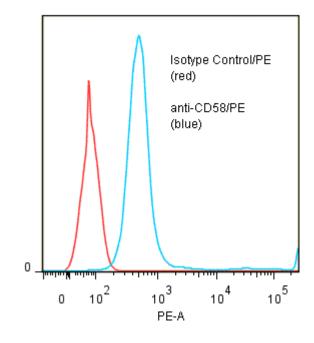
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**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 2.40.

**PERFORMANCE:** Five x  $10^5$  cultured **Nalm-6** cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD58/R-PE at a **1:25** dilution factor (20  $\mu$ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.9**  $\log_{10}$  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  $\mu$ l of 0.5 mg/ml anti-CD58 antibody (Catalog #210-020).

\*Research use only. Not for use in Diagnostic procedures.

## Binding of anti-CD58/PE to human Nalm-6 cells



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