

PERFORMANCE DATA SHEET

1817

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 10⁵-cell test)

INFORMATION: Human CD58 is a cell surface glycoprotein that functions as an adhesion molecule 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°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 2.40.

PERFORMANCE: Five x 10⁵ cultured Nalm-6 cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD58/R-PE at a 1:25 dilution factor (20 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.21 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 µl of 0.5 mg/ml anti-CD58 antibody (Catalog #210-020).

**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-CD58/R-PE to human nalm-6 cells

