## PERFORMANCE DATA SHEET

2411

## Monoclonal anti-human CD50 (ICAM-3)/R-PE\*



*mAb name/Clone:* **186.2G9** *Isotype:* Mouse IgG2bκ

Immunogen: Stimulated human leukocytes

CATALOG#: 201-050 QUANTITY: 120 tests

**VOLUME IN VIAL: 0.2ml** 

**WORKING DILUTION: 1:50** (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human CD50 is an adhesion molecule that interacts with LFA-1 (CD18/CD11a) and provides a costimulatory signal for T cells which is thought to be essential for initiation of immune responses. Antibody 186-2G9 recognizes the D1 domain of the ICAM-3 molecule of 130 kd (4), and blocks binding of CD11a (LFA-1) to CD50 (ICAM-3).

References: 1) Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford (1995) p. 1546-1547, 1578-1579. 2) C.L. Holness, et al, (1995) J Biol Chem 270: 877-884. 3) Y. van Kooyk, et al, (1996) J Exp Med 183: 1247-1252. 4) Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 403-409.

**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% NaN<sub>3</sub> (as a preservative).

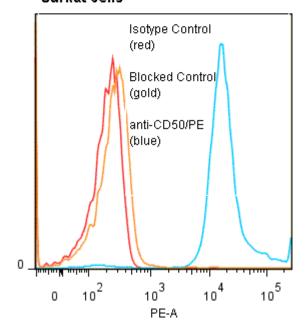
**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography.

Antibody conjugate is at 500 mg/ml with an  $A_{565}/A_{280}$  ratio of 2.55.

**PERFORMANCE:** Five x  $10^5$  cultured **Jurkat** cells were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD50/R-PE at a dilution factor of **1:50** (10  $\mu$ g/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **2.53**  $\log_{10}$  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  $\mu$ l of 0.5 mg/ml anti-CD50 antibody (Catalog #201-020).

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

## Binding of anti-CD50/PE to human Jurkat cells



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