

## PERFORMANCE DATA SHEET

1817

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

**mAb name/Clone:** 186-2G9

**Isotype:** Mouse IgG2b $\kappa$

**Immunogen:** Stimulated human leukocytes

**CATALOG#:** 201-030

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

**CONCENTRATION:** 1.0 mg/ml

**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 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, 5% Glycerol, 0.2% BSA, 0.04% Na<sub>3</sub>N (as a preservative).

**PRODUCTION:** Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human Jurkat-4G cells per tube were washed and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD50/Biotin at 5  $\mu$ g/ml. Cells were washed twice and incubated with 2<sup>o</sup> reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.64 log<sub>10</sub> fluorescent units when compared to a Mouse IgG2b/Biotin negative control (Catalog #284-030) 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).

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

**Binding of anti-CD50/Biotin + SA/PE to human PBMC**

