

PERFORMANCE DATA SHEET
3211

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

mAb name/Clone: 186-2G9

Isotype: Mouse IgG2b κ

Immunogen: Stimulated human leukocytes

CATALOG#: 201-030

QUANTITY: 100 μ 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% NaN₃ (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 10⁵ ficoll prepared human PBMC per tube were washed and preincubated 5 minutes with 20 μ l of 300 μ g/ml human IgG (to block nonspecific binding) after which they were incubated 45 minutes on ice with 80 μ l of anti-CD50/Biotin at 5 μ g/ml. Cells were washed twice and incubated with 2^o 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 2.5 log₁₀ 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 with 20 μ 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/Biotin
+SA/PE to human PBMC**

