

**PERFORMANCE DATA SHEET**

1817

**Monoclonal anti-human CD50 (ICAM-3)\***

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

**Isotype:** Mouse IgG2bκ

**Immunogen:** Stimulated human leukocytes

**CATALOG#:** 201-820 (Preservative-free)

**QUANTITY:** 100 µg

**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 (1, 2, 3) 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. Open under aseptic conditions. Freeze/Thawing is not recommended.

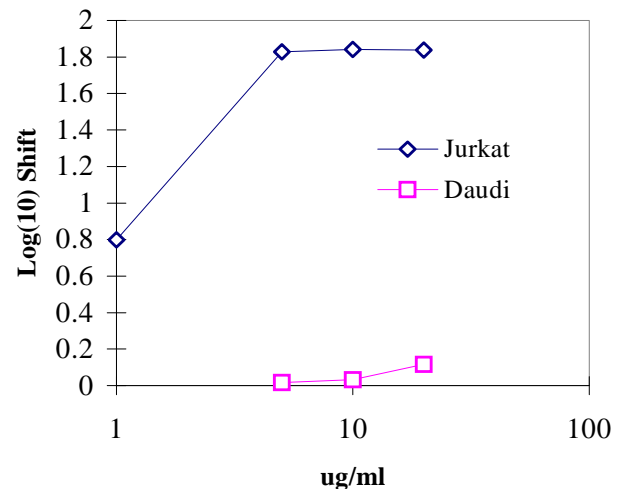
**PRODUCT STABILITY:** Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 µm filtered and viald under aseptic conditions..

**PERFORMANCE:** Five x 10<sup>5</sup> cultured human **Jurkat** cells per tube were washed and pre incubated 5 minutes on ice with 20 µl of 250 µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD50 antibody at **10 µg/ml**. Cells were washed twice and incubated with 2<sup>o</sup> reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **1.84 log<sub>10</sub>** fluorescent units when compared to a Mouse IgG2b negative control (Catalog # 284-010) at a similar concentration.

**Binding of anti-CD50 antibody to human cell lines**



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