

PERFORMANCE DATA SHEET

3312

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

mAb name/Clone: 186-2G9

Isotype: Mouse IgG2bκ

Immunogen: Stimulated human leukocytes

CATALOG#: 201-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10⁵-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.

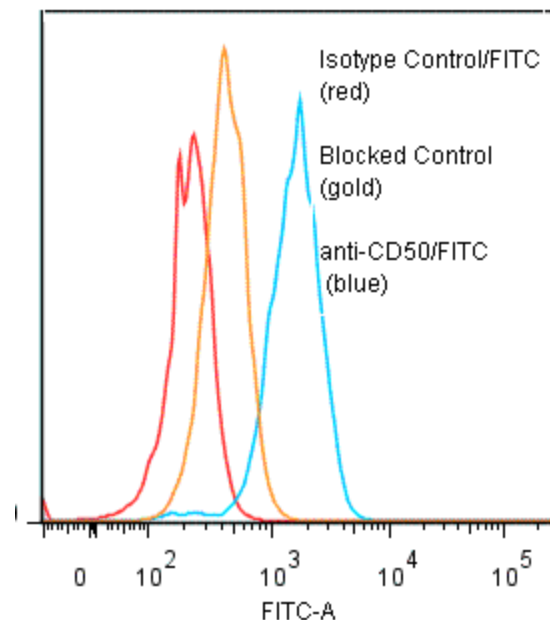
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at 0.5 mg/ml with a Fluorescein/IgG molar ratio of 10.1.

PERFORMANCE: Five x 10⁵ cultured Jurkat-4G cells were washed and incubated 45 minutes on ice with 80 µl of anti-CD50/FITC at a dilution factor of 1:50 (10 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.25 log₁₀ fluorescent units when compared to a Mouse IgG2b/FITC negative control (Catalog #284-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD50 antibody (Catalog #201-020).

Binding of anti-CD50/FITC to human Jurkat cells



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