PERFORMANCE DATA SHEET

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Ancell

Monoclonal anti-human CD137 (4-1BB)/FITC *

mAb name/Clone: **4B4-1** *Isotype:* Mouse IgG1κ

Immunogen: Ectodomain of human 4-1BB-GST fusion protein

CATALOG#: 360-040 QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml

WORKING DILUTION: 1:50 (or use 1.6ul concentrated stock per test)

INFORMATION: Human CD137 (4-1BB) is expressed on activated T cells within 24-48 hours of activation. CD137 is a type I membrane protein and a member of the tumor necrosis factor receptor superfamily. CD137 appears to be important for T cell proliferation and survival. Antibody 4B4-1 recognizes the CD137 molecule of about 35 kd from activated T cells.

References: M.R. Alderson, et al, (1994) Eur J Immunol **24**: 2219-2227. H.J. Gruss, and S.K. Dower, (1995) Blood **85**: 3378-3404. B.A. Garni-Wagner, et al, (1996) Cellular Immunol **169**: 91-98. H. Schwarz, et al, (1996) Blood **87**: 2839-2845.

STORAGE CONDITIONS: *Store at 2 - 5^oC*. Freeze/Thawing is not recommended. Protect from light.

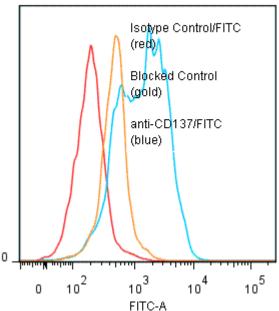
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

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 6.5.

PERFORMANCE: Cultured human **CEM** cells were stimulated 1 day in the presence of PMA (10ng/ml) and ionomicin (1 μ M). Five x 10⁵ cells were washed and incubated 45 minutes on ice with 80 μ l of anti-CD137/FITC at a **1:50** dilution factor (10 ug/ml). Cells were washed three times, fixed and analyzed by FACS. A 25% sub population of the cells stained positive with a mean shift of **0.92** log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog # 278-040). Binding was blocked when cells were pre incubated 10 minutes with 20 μ l of 0.5 mg/ml anti-CD137 antibody (Catalog #360-020

Binding of anti-CD137/FITC to stimulated human CEM cells



^{*} Research Use Only. Not for use in Diagnostic procedures.

Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940