

PERFORMANCE DATA SHEET

1818

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

mAb name/Clone: 4B4-1

Isotype: Mouse IgG1 κ

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 1.6 μ l of concentrated stock per 5 x 10⁵-cell 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°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 9.8.

PERFORMANCE: Cultured human CEM cells were stimulated 1 day in the presence of PMA (10ng/ml) and ionomycin (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. Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.03 log₁₀ fluorescent units when compared to a Mouse IgG1/FITC negative control (Catalog #278-040) at a similar concentration. 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).

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

Binding of anti-CD137/FITC to human cell lines

