

PERFORMANCE DATA SHEET

2744

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

mAb name/Clone: 4B4-1

Isotype: Mouse IgG1κ

Immunogen: Ectodomain of human 4-1BB fusion protein

CATALOG#: 360-050

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6ul of concentrated stock per 5×10^5 -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. **Do not freeze! 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Protein A purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **0.5 mg/ml** with an A₅₆₅/A₂₈₀ ratio of 2.92.

PERFORMANCE: Cultured human CEM were stimulated overnight in the presence of PMA (10ng/ml) and ionomycin (1uM). Five x 10⁵ cells per tube were washed and incubated 45 minutes on ice with 80 ul of anti-CD137/R-PE at a **1:50** dilution (10ug/ml). Cells were washed three times, fixed and analyzed by FACS. A net 71% sub population of the cells stained positive with a mean shift of **1.12 log₁₀** fluorescent units when compared to a Mouse IgG1/R-PE negative control (Catalog # 278-050). Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml anti-CD137 antibody (Catalog #360-020).

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

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

