PERFORMANCE DATA SHEET
3129

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

mAb name/Clone: **4B4-1**
Isotype: Mouse IgG1κ
Immunogen: Ectodomain of human 4-1BB fusion protein

CATALOG#: 360-820 (Preservative free)
QUANTITY: 100 µg **CONCENTRATION: 1.0 mg/ml**

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. ***Open under aseptic conditions.***

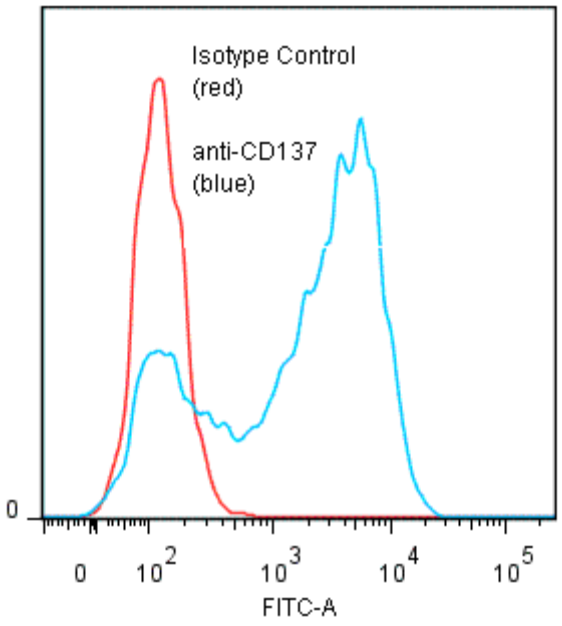
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

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

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

PERFORMANCE: Cultured human **CEM** were stimulated 1 day in the presence of PMA (10ng/ml) and ionomycin (1µM). Five x 10^5 cells per tube were washed and incubated 45 minutes on ice with 80 µl of anti-CD137 antibody at **10 µg/ml**. Cells were washed twice and incubated with 2° reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. A **70%** sub population of the cells stained positive with a mean shift of **1.24** $\log_{10}$ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).

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



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