

PERFORMANCE DATA SHEET

2345

Monoclonal anti-mouse CD3 ϵ (preservative-free)

mAb name/Clone: 145-2C11

Isotype: IgG

Immunogen: Mouse BM10-37 T cell membrane prep

CATALOG#: 703-820

QUANTITY: 100 μ g

CONCENTRATION: 1.0 mg/ml

INFORMATION: Antibody 145-2C11 binds to an extracellular epitope of the 25 kd CD3 ϵ molecule present on murine T cells (1). CD3 molecules associate with T cell Receptors and provide intracellular signaling mechanism. Cross linking Cell surface CD3 with soluble or immobilized 145-2C11 can activate this mechanism(2).

References: 1) O Leo, J A Bluestone, et al. (1987) *PNAS USA* **84**(5): 1374-1378. 2) L E Samelson, J A Bluestone, et al. (1987) *J Immunol* **139**(8): 2708-2714.

STORAGE CONDITIONS: Store at 2 - 5°C. Open under aseptic conditions. Freeze/Thawing is not recommended.

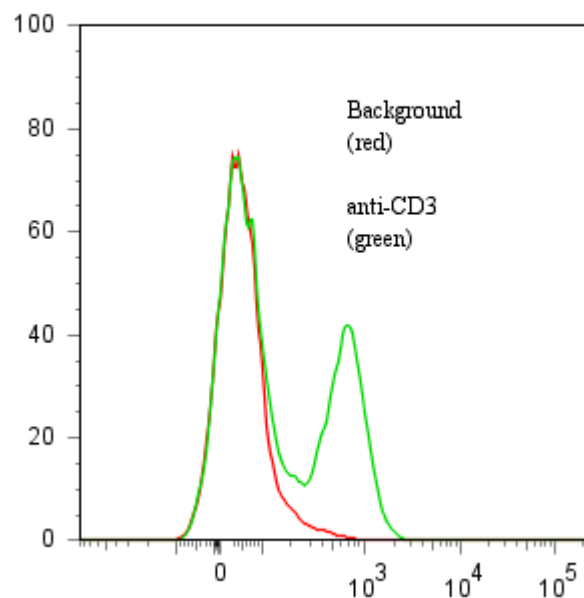
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

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

PRODUCTION: Antibody was Protein G purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin. Product was 0.2 μ m filtered and vialled under aseptic conditions.

PERFORMANCE: Reagent was tested for binding to ACK lysed murine splenocytes in FACS. Five x 10⁵ splenocytes per tube were washed and pre incubated with 20 μ l of 300 μ g/ml murine IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 μ l of anti-CD3 antibody diluted to 10 μ g/ml. Cells were washed twice and incubated with 2^o reagent Goat anti-Hampster IgG/FITC, after which they were washed three times, fixed and analyzed by FACS. A 33% sub population of the cells stained positive with a mean shift of 1.08 log₁₀ fluorescent units when compared to background.

Binding of anti-mouse CD3 mAb + Goat anti-Hampster/FITC to lysed murine splenocytes



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