PERFORMANCE DATA SHEET
2345

Monoclonal anti-mouse CD3ε (preservative-free)

mAb name/Clone: **145-2C11**
Isotype: IgG
Immunogen: Mouse BM10-37 T cell membrane prep

CATALOG#: 703-820
QUANTITY: 100 µg **CONCENTRATION: 1.0 mg/ml**

INFORMATION: Antibody 145-2C11binds to an extracellular epitope of the 25 kd CD3e 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.

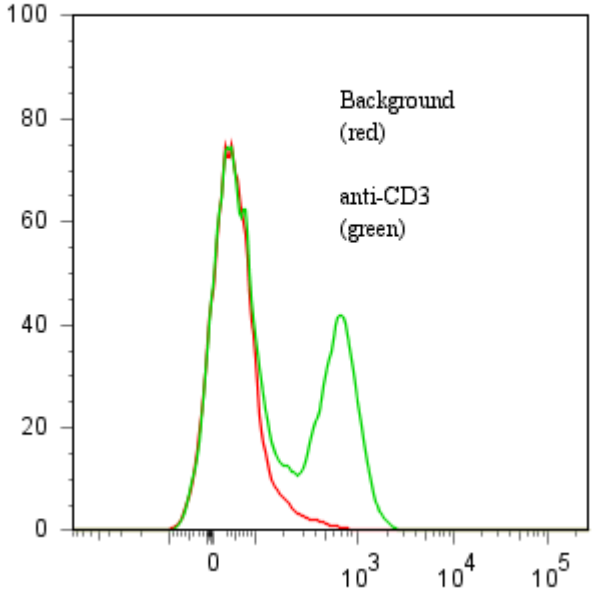
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

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 µm filtered and vialed under aseptic conditions.

PERFORMANCE: Reagent was tested for binding to ACK lysed murine splenocytes in FACS. Five x 10^5 **splenocytes** per tube were washed and pre incubated with 20µl of 300µg/ml murine IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD3 antibody diluted to **10 µg/ml**. Cells were washed twice and incubated with 2° 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** $\log_{10}$ fluorescent units when compared to background.

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



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