

## PERFORMANCE DATA SHEET

2345

### Monoclonal anti-mouse CD3 $\epsilon$

**mAb name/Clone:** 145-2C11

**Isotype:** IgG

**Immunogen:** Mouse BM10-37 T cell membrane prep

**CATALOG#:** 703-020

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Antibody 145-2C11 binds to an extracellular epitope of the 25 kd CD3 $\epsilon$  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. Freeze/Thawing is not recommended.

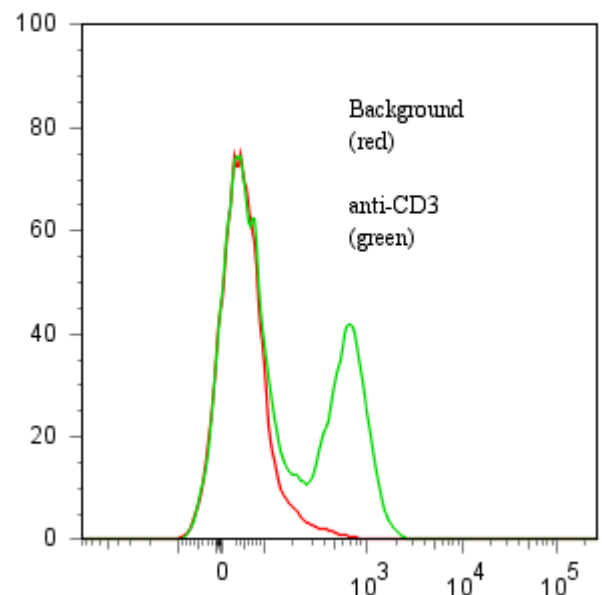
**PRODUCT STABILITY:** Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

**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.

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

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



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