## PERFORMANCE DATA SHEET

1919

## Monoclonal anti-mouse CD3/FITC\*



mAb name/Clone: 145-2C11

Isotype: IgG

Immunogen: Mouse BM10-37 T cell membrane prep

CATALOG#: 703-040
QUANTITY: 120 tests

VOLUME IN VIAL: 0.2ml
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x 10<sup>5</sup>-cell test)

**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<sup>o</sup>C*. Freeze/Thawing is not recommended. Protect from light.

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

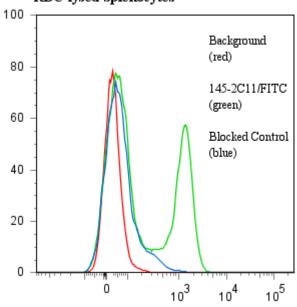
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein G purified antibody from tissue culture supernatant was reacted with FITC. Unconjugated FITC was separated from antibody/FITC conjugate by desalting column. The antibody/FITC conjugate is at **0.25 mg/ml** with a Fluorescein/IgG molar ratio of. **Binding of anti-Mouse CD3/FIT** 

**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 20  $\mu$ l of 300  $\mu$ g/ml Mouse IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80  $\mu$ l of anti-mouse CD3/FITC at a **1:50** dilution (5  $\mu$ g/ml). They were then washed three times, fixed and analyzed by FACS. A **35%** sub population of the cells stained positive with a mean shift of **1.67**  $\log_{10}$  fluorescent units when compared to background. Binding was blocked when cells were pre incubated 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-mouse CD3 antibody (Catalog #703-020).

\*This Product is intended for Laboratory Research use only.

## Binding of anti-Mouse CD3/FITC to RBC-lysed Splenocytes



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