PERFORMANCE DATA SHEET

2212

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 10⁵-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°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:_____

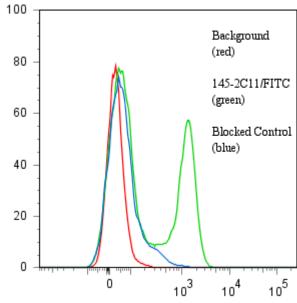
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

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 10.8. **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 μ l of 300 μ g/ml Mouse IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 μ l of anti-mouse CD3/FITC at a **1:50** dilution (5 μ 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 μ 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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