

**PERFORMANCE DATA SHEET**

2441

**Monoclonal anti-mouse CD3/R-PE \***

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

**Isotype:** IgG

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

**CATALOG#:** 703-050

**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 145-2C11 binds 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. Do not freeze! 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, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% Na<sub>3</sub>N (as a preservative).

**PRODUCTION:** Protein G purified antibody from tissue culture supernatant was conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **500 µg/ml** with an A<sub>565</sub>/A<sub>280</sub> ratio of 3.8.

**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 µl of 300 µg/ml Mouse IgG (to block non specific binding), after which they were incubated 45 minutes on ice with 80 µl of anti-Mouse CD3/R-PE at a 1:50 dilution (10 µg/ml). They were then washed three times, fixed and analyzed by FACS. A 32% sub sub population of the cells stained positive with a mean shift of 1.4 log<sub>10</sub> fluorescent units when compared to background. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-mouse CD3 antibody (Catalog #703-020).

*\* Research Use Only. Not for use in Diagnostic procedures.*

