Ancell

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 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. Do not freeze! Protect from light.

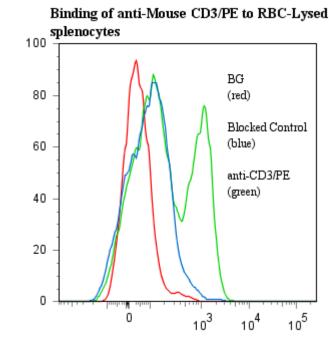
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN₃ (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 \mug/ml** with an A_{565}/A_{280} ratio of 3.8.

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 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_{10} 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.



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