

PERFORMANCE DATA SHEET

1916

*Monoclonal anti-mouse CD3ε/Biotin**

mAb name/Clone: 145-2C11

Isotype: IgG

Immunogen: Mouse BM10-37 T cell membrane prep

CATALOG#: 703-030

QUANTITY: 100 µg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Antibody 145-2C11 binds to an extracellular epitope of the 25 kd CD3ε 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 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, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein G purified and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Reagent was tested for binding to ACK lysed murine splenocytes in FACS. Five x 10⁵ splenocytes per tube were washed and pre incubated 5 minutes with 20 µl of 250 µg/ml Mouse IgG (to reduce non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-mouse CD3/Biotin at concentration of 10 µg/ml. They were then washed twice and incubated with 2^o reagent Streptavidin/R-PE (Catalog #253-050) after which they were washed twice, fixed and analyzed by FACS. A 35% sub population of the cells stained positive with a mean shift of 1.34 log₁₀ fluorescent units when compared to background. Binding was blocked when cells were pre incubated with 20µl of 0.5mg/ml unlabeled anti-CD3 antibody (cat #703-020).

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

Binding of anti-Mouse CD3/Biotin + SA/PE to RBC-lysed Splenocytes

