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 145-2C11binds 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 not recommended.

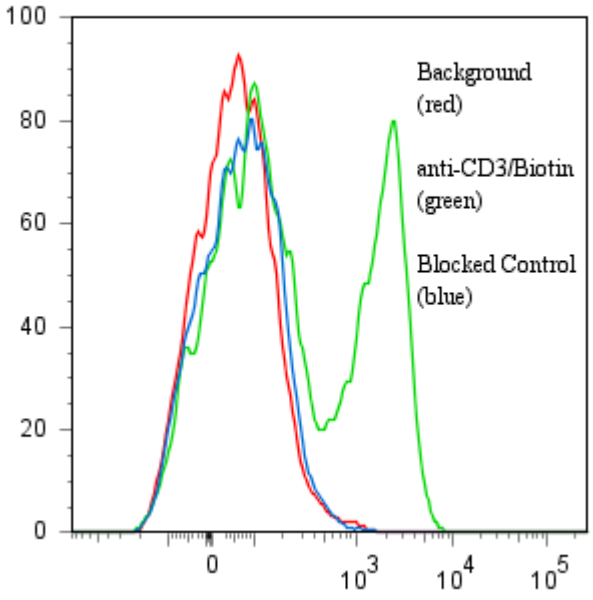
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (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 10^5 **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 ul of anti-mouse CD3/Biotin at concentration of **10 µg/ml**. They were then washed twice and incubated with 2° 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).

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



Research use only. Not for use in Diagnostic Procedures.

.

Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA
Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940