PERFORMANCE DATA SHEET
2015

Monoclonal anti-mouse CD45R(B220)/Biotin*

mAb name/Clone: **RA3-3A1/6.1**
Isotype: Rat IgM
Immunogen: RAW112 cells

CATALOG#: 720-030
QUANTITY: 100 µg **CONCENTRATION: 1.0mg/ml**

INFORMATION: Antibody RA3-3A1 binds to an extracellular epitope of B220 (CD45R), the 220 kD variant of the T200, CD45 molecule present on B cells and B cell precursors. CD45R is implicated in a signaling pathway that involves motility and dendrite formation (2).

References: 1) Coffman RL, Weissman IL. (1981) Nature 289(5799): 681-683. 2) Partida-Sanchez S, Santos-Argumedo L, et al. (2000) Eur J Immunol 30(9): 2722-2728.

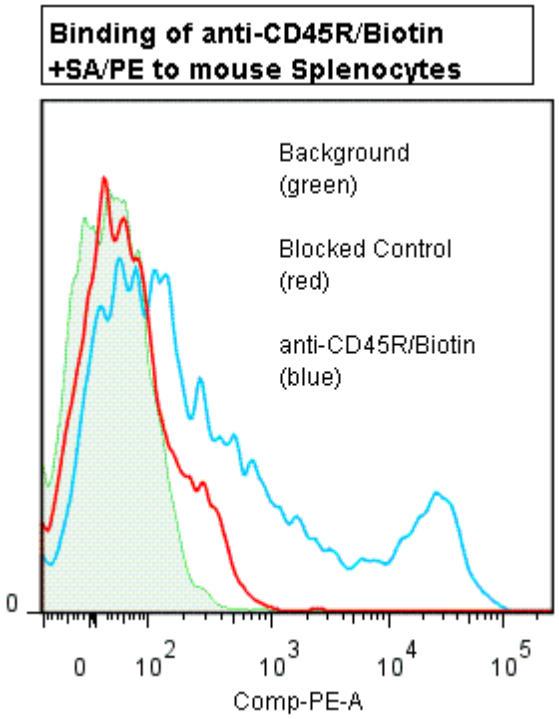
STORAGE CONDITIONS: ***Store at 2 - 5^{o}C***. Freeze/Thawing is not recommended. Protect from light.

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, 500 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Antibody was purified from tissue culture supernatant by size exclusion chromatography and reacted with NHS-Biotin. Unconjugated Biotin was separated 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 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 B220/Biotin at a concentration of **10 µg/ml**. Cells were washed twice and incubated with secondary reagent Streptavidin/PE (Cat# 253-030) after which they were washed three times, fixed and analyzed by FACS. A **33%** sub population of the cells stained positive with a mean shift of **2.44** $\log_{10}$ 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 B220 antibody (Catalog #720-020).



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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