

**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°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% Na<sub>3</sub> (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<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 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<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 B220 antibody (Catalog #720-020).

**\*For Laboratory Research use only. Not for use in Diagnostic Procedures.**

