

PERFORMANCE DATA SHEET

1943

Monoclonal anti-mouse CD45R(B220)/FITC *

mAb name/Clone: RA3-3A1/6.1

Isotype: Rat IgM

Immunogen: RAW112 cells

CATALOG#: 720-040

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 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% Na₃ (as a preservative).

PRODUCTION: Antibody was purified from tissue culture supernatant by size exclusion chromatography and reacted with fluorochrome. Unconjugated fluorochrome was separated from conjugate using a desalting column. The conjugate is at 0.5 mg/ml with a Fluorochrome/IgM molar ratio of 53.6.

PERFORMANCE: Reagent was tested for binding to ACK-lysed murine splenocytes in FACS. Five x 10⁵ 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/FITC at a 1:50 dilution (10 µg/ml). They were then washed three times and analyzed by FACS. A 29% sub population of the cells stained positive with a mean shift of 2.09 log₁₀ 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.**

