



**Category:** Monoclonal Antibodies      **Cat. #** mab-SF-C040      **Product Name:** mB220(CD45R)

**Description:**

Monoclonal Rat Anti-mouse B220 (CD45R). B220 (CD45R) is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. CD45R functions as a phosphotyrosine phosphatase, a vital component for efficient tyrosine phosphorylation induction by the TCR/CD3 complex.

**Immunogen:**

The mouse cell line RAW 112

**Application:**

IHC(frozen), Flow cytometry.

**Species Reactivity:**

Mouse. Others not tested.

**Presentation:**

50 mM Sodium Borate, 150 mM Sodium Chloride, 20% Glycerol and 0.05% Sodium azide, pH 8.0.

**Aliquoting Instructions:**

Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies.

**Staining Procedure:**

This antibody can be used on frozen cryostat sections. The antibody may be used at a dilution of 5-20ug/mL

**Specificity:**

This 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. B220 (CD45R) is required for t-cell activation through the antigen receptor. The first ptpase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one.

**Storage:**

Store at 2~8°C for short term, freeze under -20°C for long term storage.

**Size:** 0.2 mg

**Clone:** RA3.3A1/6.1

**Isotype:** Rat IgM

**Host:** Rat

**Form:** Purified

**Concentration:** 0.5 mg/ml

**Units On Hand:** YES

**References:**

1. Kaplan, R., et al., Proc. Natl. Acad. Sci. U.S.A. 87 (18): 7000-7004, 1990.
2. Brown, V K., et al., J. Biol. Chem. (US) 269 (25): 17238-17244, 1994.
3. Koretzky, G A., Kohmetscher, M., Ross, S., J. Biol. Chem. (US) 268 (12): 8958-8964, 1993.

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