

## Biotin Anti-Mouse CD45R/B220 Monoclonal Antibody



天津三箭生物技术股份有限公司  
Tianjin Sungene Biotech Co., Ltd.  
精准 高效 稳定 Precision Efficient Stable

Catalog Number	Vial Size
M10451-08B	50 µg
M10451-08E	500 µg

**Market** | 400-621-0003  
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**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.  
This product is guaranteed up to one year from purchase.

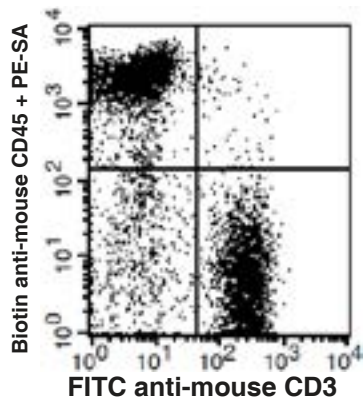
### Purified Antibody Characterization

Clone	Isotype	Reactivity
RA3.3A1/6.1	Rat IgM	Mouse

### Description

CD45R, also known as B220, is an isoform of CD45. It is a member of the protein tyrosine phosphatase (PTP) family with a molecular weight approximately 180-240 kD. CD45R is expressed on B cells (at all developmental stages from pro-B cells through mature B cells), activated B cells, subsets of T and NK cells. CD45R (B220) is also expressed on a subset of abnormal T cells involved in the pathogenesis of systemic autoimmunity in MRL-Fas<sup>lpr</sup> and MRL-Fas<sup>gld</sup> mice. It plays a critical role in TCR and BCR signaling. The primary ligands for CD45 are galectin-1, CD2, CD3, and CD4. CD45R is commonly used as a pan-B cell marker; however, CD19 may be more appropriate for B cell specificity.

### Illustration of Immunofluorescent Staining



C57BL/6 mouse splenocytes stained with FITC anti-mouse CD3 and Biotin anti-mouse CD45R/B220, followed by PE-SA

### Product Information

**Conjugation:** Biotin

**Formulation:** PBS pH 7.2, 0.09% NaN<sub>3</sub>, 0.2% BSA

**Concentration:** 0.5 mg/ml

**Storage:** Keep as concentrated solution. Store at 4°C and protected from prolonged exposure to light. **Do not freeze.**

**Application:** Recommended Application: FC

**Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis (The amount of the reagent is suggested to be used  $\leq 0.25$  µg /10<sup>6</sup> cells in 100 µl). Since applications vary, the appropriate dilutions must be determined for individual use.

### References

- [1] Shih, F.F., et al. 2006. J. Immunol. 176:3438.
- [2] Bouwer, H.G.A., et al. 2006. P. Natl. Acad. Sci. USA 103:5102.

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