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# FITC Anti-Mouse CD45R/B220 Antibody[RA3.3A 1/6.1]

Catalog Number: E-AB-F1112C

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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 Reactivity
 Mouse

 Host
 Rat

 Isotype
 Rat IgM, κ

 Clone No.
 RA3.3A 1/6.1

Isotype Control FITC Rat IgM, κ Isotype Control[RTK2118] [Product E-AB-F09772C]

Conjugation FITC

Conjugation Information FITC is designed to be excited by the Blue laser (488 nm) and detected using an optical

filter centered near 530 nm (e.g., a 525/40 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

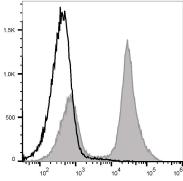
# Applications Recommended usage

FCM Each lot of this antibody is quality control tested by flow cytometric analysis. The amount

of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for

individual use.

## **Data**



Staining of C57BL/6 murine splenocytes with FITC Anti-Mouse CD45R/B220 Antibody[RA3.3A 1/6.1] (filled gray histogram) or FITC Rat IgM,  $\kappa$  Isotype Control (empty black histogram). Total viable cells were used for analysis.

### **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

Rev. V1.5

exposure to light and do not freeze.

Shipping Ice bag

#### **Antigen Information**

 Alternate Names
 B220

 Gene ID
 19264:5788

# For Research Use Only

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## **Elabscience Bionovation Inc.**



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## **Background**

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 of 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, and 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.

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