

## Elab Fluor® 700 Anti-Mouse CD45R/B220 Antibody[RA3.3A 1/6.1]

Catalog Number: E-AB-F1112UM1

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

### Description

|                         |  |
|-------------------------|--|
| Reactivity              | Mouse  |
| Host                    | Rat  |
| Isotype                 | Rat IgM, κ   |
| Clone No.               | RA3.3A 1/6.1   |
| Isotype Control         | Elab Fluor® 700 Rat IgM, κ Isotype Control[RTK2118] [Product E-AB-F09773M1]  |
| Conjugation             | Elab Fluor® 700  |
| Conjugation Information | Elab Fluor® 700 is designed to be excited by the Red laser (627-640 nm) and detected using an optical filter centered near 719 nm (e.g., a 725/40 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA.   |

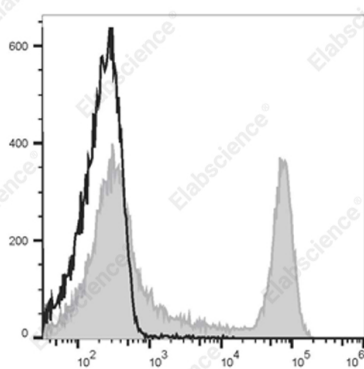
### Applications

### Recommended usage

#### FCM

Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1 µg/10<sup>6</sup> cells in 100 µL volume].

### Data



Staining of C57BL/6 murine splenocytes with Elab Fluor® 700 Anti-Mouse CD45R/B220 Antibody[RA3.3A 1/6.1] (filled

gray histogram) or Elab Fluor® 700 Rat IgM, κ Isotype Control (empty black histogram). Total viable cells were used for analysis.

### Preparation & Storage

|          |   |
|----------|---|
| Storage  | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze. |
| Shipping | Ice bag   |

### Antigen Information

|                 |            |
|-----------------|------------|
| Alternate Names | B220       |
| Uniprot ID      | 0          |
| Gene ID         | 19264;5788 |

### For Research Use Only

## 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.