

Elab Fluor® 647 Anti-Mouse CD45R (B220) Antibody[RA3-6B2]

Catalog Number: AN00428UM

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

Description

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|--------------------------------|--|
| Reactivity | Mouse |
| Host | Rat |
| Isotype | Rat IgG2a, κ |
| Clone No. | RA3-6B2 |
| Isotype Control | Elab Fluor® 647 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833M] |
| Conjugation | Elab Fluor® 647 |
| Conjugation Information | Elab Fluor® 647 is designed to be excited by the Red laser (627-640 nm) and detected using an optical filter centered near 670 nm (e.g., a 660/20 nm bandpass filter). |
| Storage Buffer | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA. |

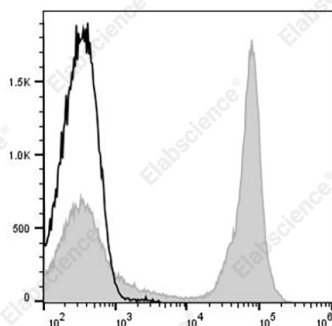
Applications

Recommended usage

FCM

Each lot of this antibody is quality control tested by flow cytometric analysis. **The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL 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 cells with Elab Fluor® 647 Anti-Mouse CD45R (B220) Antibody[RA3-6B2] (filled gray histogram) or Elab Fluor® 647 Rat IgG2a, κ Isotype Control (empty black histogram). Total viable cells were used for analysis.

Preparation & Storage

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|-----------------|---|
| Storage | Keep as concentrated solution. 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

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|------------------------|-------------|
| Alternate Names | CD45R;B220 |
| Uniprot ID | Q64224 |
| 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^{lpr} and MRL-Fas^{gld} 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. CD19, however, may be more appropriate for B cell specificity.