

FITC Anti-Mouse CD45R (B220) Antibody[RA3-6B2]

Catalog Number: AN00428UC

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

Description

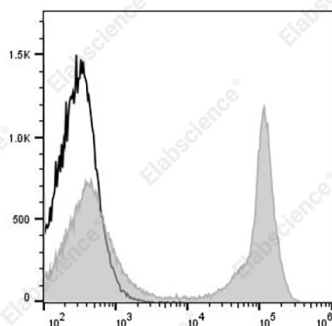
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| Reactivity | Mouse |
| Host | Rat |
| Isotype | Rat IgG2a, κ |
| Clone No. | RA3-6B2 |
| Isotype Control | FITC Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833C] |
| Conjugation | FITC |
| Conjugation Information | FITC is designed to be excited 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 and 1% protein protectant. |

Applications

Recommended usage

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| 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. |
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Data



Staining of C57BL/6 murine splenocytes cells with FITC Anti-Mouse CD45R (B220) Antibody[RA3-6B2] (filled gray histogram) or FITC 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.

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