

PE/Cyanine7 Anti-Mouse CD45R/B220 Antibody[RA3.3A 1/6.1]

Catalog Number: E-AB-F1112H

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 | [Product E-AB-F09772H] |
| Conjugation | PE/Cyanine 7 |
| Conjugation Information | PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm (e.g., a 780/60 nm bandpass filter). |
| Storage Buffer | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. |

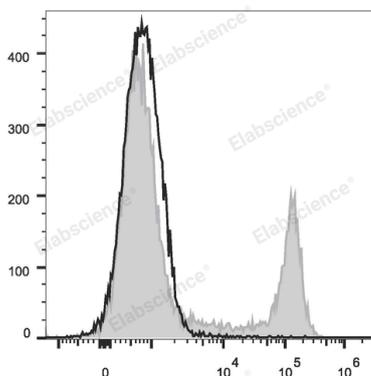
Applications

FCM

Recommended usage

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



C57BL/6 murine splenocytes are stained with PE/Cyanine7 Anti-Mouse CD45R/B220 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

Preparation & Storage

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|-----------------|---|
| Storage | Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze. |
| Shipping | Ice bag |

Antigen Information

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|------------------------|------------|
| Alternate Names | B220 |
| 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; however, CD19 may be more appropriate for B cell specificity.