

## PE/Cyanine7 Anti-Mouse CD45R (B220) Antibody[RA3-6B2]

**Catalog Number:** AN00428H

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

### Description

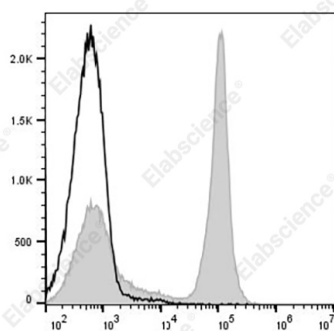
<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2a, $\kappa$
<b>Clone No.</b>	RA3-6B2
<b>Isotype Control</b>	PE/Cyanine7 Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832H]
<b>Conjugation</b>	PE/Cyanine 7
<b>Conjugation Information</b>	PE/Cyanine7 is designed to be excited by 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).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

### Applications

### Recommended usage

<b>FCM</b>	Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 <math>\mu</math>L of antibody per test (million cells in 100 <math>\mu</math>L staining volume or per 100 <math>\mu</math>L of whole blood).</b> 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 PE/Cyanine7 Anti-Mouse CD45R (B220) Antibody[RA3-6B2] (filled gray histogram) or PE/Cyanine7 Rat IgG2a,  $\kappa$  Isotype Control (empty black histogram). Total viable cells were used for analysis.

### Preparation & Storage

<b>Storage</b>	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.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	CD45R;B220
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### For Research Use Only

**Uniprot ID**

Q64224

**Gene ID**

19264; 5788

**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-Faslpr and MRL-Fasgld 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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