

## Purified Anti-Mouse CD23 Antibody[B3B4]

catalog number: E-AB-F1178A

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

### Description

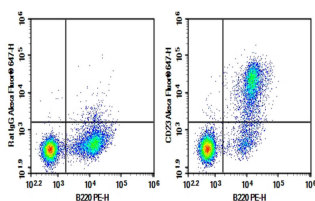
<b>Reactivity</b>	Mouse
<b>Immunogen</b>	Recombinant Mouse CD23 protein
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2a, $\kappa$
<b>Clone</b>	B3B4
<b>Purification</b>	>98%, Protein A/G purified
<b>Buffer</b>	Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer. Dialyze to completely remove the stabilizer prior to labeling.

### Applications

### Recommended Dilution

<b>FCM</b>	2 $\mu\text{g/mL}$ ( $1 \times 10^5$ - $5 \times 10^5$ cells)
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### Data



C57/BL6 Mouse splenocytes were stained with 0.2  $\mu\text{g}$  Purified Anti-Mouse CD23 Antibody[B3B4] (Right) and 0.2  $\mu\text{g}$  Rat Ig2a,  $\kappa$  Isotype Control (Left), followed by Alexa Fluor® 647-conjugated Goat Anti-Rat IgG Secondary Antibody, then anti-Mouse B220 PE-conjugated Monoclonal Antibody.

### Preparation & Storage

<b>Storage</b>	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
<b>Shipping</b>	Ice bag

### Background

CD23, also known as Fc $\epsilon$ RII, is a trimeric type II transmembrane glycoprotein member of the calcium-dependent (C-type) lectin family. CD23 is expressed in B and T lymphocytes, monocytes, polymorphonuclear leukocytes, follicular dendritic cells, intestinal epithelial cells, and bone marrow stromal cells. CD23 was first identified as a low-affinity receptor for IgE and the engagement of membrane bound CD23 leads to suppressed IgE production by B lymphocytes. CD23 can be cleaved to form a soluble protein which can drive cytokine release in monocytic cells, nitric oxide (NO) production, and the synthesis of cyclic adenosine 3'5'-monophosphate (cAMP). Soluble CD23 signals through integrins, activating MAPK and NF- $\kappa$ B pathways. CD23 is a useful marker in the prognosis of neoplastic disease, is elevated in a variety of autoimmune and inflammatory conditions, and is being investigated as a therapeutic target for IgE-mediated allergy, arthritis, and B cell chronic lymphocytic leukemia (CLL).

### For Research Use Only