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# APC Anti-Human CD23 Antibody[EBVCS2]

Catalog Number: E-AB-F1382E

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

#### Description

Reactivity Human Mouse Host

Isotype Mouse IgG1, ĸ Clone No. EBVCS2

APC Mouse IgG1, k Isotype Control[MOPC-21] [Product E-AB-F09792E] Isotype Control

Conjugation

**Conjugation Information** APC is designed to be excited by the Red (627-640 nm) laser and detected using an

optical filter centered near 660 nm (e.g., a 660/20 nm bandpass filter).

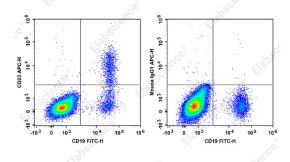
Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. Storage Buffer

#### **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 normal human peripheral blood cells with FITC Anti-Human CD19 Antibody and APC Anti-Human CD23 Antibody[EBVCS2] (left) or APC Mouse IgG1, κ Isotype Control (right). Cells in the lymphocytes gate were used for analysis.

### **Preparation & Storage**

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**

**Uniprot ID** P06734 Gene ID 2208

# For Research Use Only

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#### **Elabscience Bionovation Inc.**



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## **Background**

CD23 is a 45 kD protein, also known as Leu-20, Fc $\epsilon$ RII, IgE Fc receptor, BLAST-2, B6, and low affinity IgE receptor. It is a member of the Ig family, expressed on most mature B cells, B cells in follicular mantle (but not in proliferating germinal center cells, follicular dendritic cells, monocytes, eosinophils, Langerhans cells, and a subset of T cells (10-15% of tonsillar T cells). CD23 responds to high levels of IgE by downregulating IgE secretion. In human monocytes, CD23 triggering results in release of pro-inflammatory cytokines including TNF- $\alpha$ , IL-1, IL-6, and GM-CSF. CD23 can be proteolytically cleaved to generate soluble CD23 fragments of various molecular weights. In chronic lymphocytic leukemia, levels of soluble CD23 in the serum can be used as a prognostic marker to identify patients at high risk for disease progression. Alternate splicing of exon 2 can also generate two cell-surface isoforms of CD23 differing by 6 amino acids in their cytoplasmic region.