

## APC Anti-Mouse CD40 Antibody[1C10]

**Catalog Number:** AN00473E

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

### Description

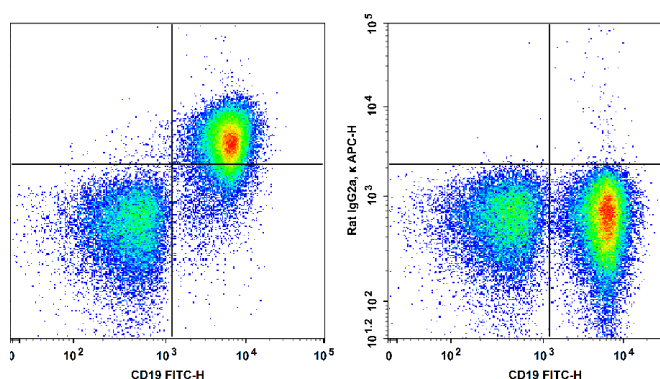
|                                |                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>              | Mouse                                                                                                                                                      |
| <b>Host</b>                    | Rat                                                                                                                                                        |
| <b>Isotype</b>                 | Rat IgG2a, $\kappa$                                                                                                                                        |
| <b>Clone No.</b>               | 1C10                                                                                                                                                       |
| <b>Isotype Control</b>         | APC Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832E]                                                                                        |
| <b>Conjugation</b>             | APC                                                                                                                                                        |
| <b>Conjugation Information</b> | 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). |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.                                                                                          |

### 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. |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Data



Staining of C57BL/6 murine splenocytes cells with FITC Anti-Mouse CD19 Antibody and APC Anti-Mouse CD40 Antibody[1C10] (left) or APC Rat IgG2a,  $\kappa$  Isotype Control (right). Total viable cells were used for analysis.

### Preparation & Storage

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

### Antigen Information

|                        |              |
|------------------------|--------------|
| <b>Alternate Names</b> | Bp50;TNFRSF5 |
| <b>Gene ID</b>         | 21939        |

### For Research Use Only

Toll-free: 1-888-852-8623  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017

Rev. V1.2

## Background

CD40 is a 48 kD type I transmembrane glycoprotein, also known as Bp50. It is a member of the tumor necrosis factor receptor (TNFR) superfamily and is expressed on B cells, basal epithelial cells, macrophages, follicular dendritic cells, endothelial cells, and a subset of CD34+ hematopoietic progenitors. CD40 regulates B cell development/maturation, Ig isotype switching and, in combination with other signals such as IL-4, protects B cells from surface Ig-induced apoptosis and promotes proliferation. Interaction of CD40 with its ligand CD154 (gp39), which is expressed on activated T cells, is important in costimulation and immune regulation.