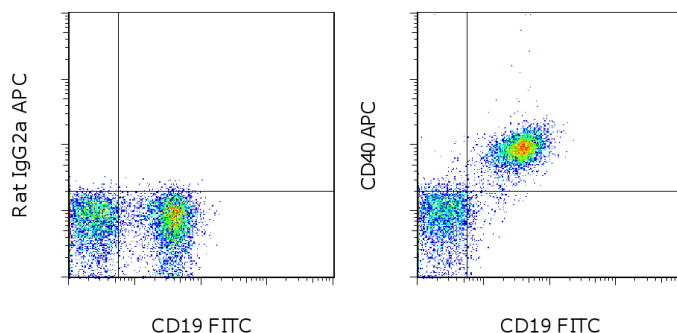


## Anti-Mouse CD40 APC

**Catalog Number:** 17-0401

**Also known as:** TNFRSF5

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of BALB/c splenocytes with Anti-Mouse CD19 FITC (cat. 11-0193) and 0.125 ug of Rat IgG2a K Isotype Control APC (cat. 17-4321) (left) or 0.125 ug of Anti-Mouse CD40 APC (right). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD40 APC



**Catalog Number:** 17-0401

**Clone:** 1C10

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, kappa



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.



**Batch Code:** Refer to vial



**Use By:** Refer to vial



**Contains sodium azide**

### Description

The 1C10 monoclonal antibody reacts with mouse CD40, a 45-50 kDa type I transmembrane glycoprotein. CD40 is a member of the TNFR family and is expressed by mouse B lymphocytes, follicular dendritic cells, thymic epithelium, and a subset of peripheral T cells. CD40 regulates B cell development/maturation by inducing 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 CD154 (gp39), its ligand on T cells, is important in T-B cell crosstalk and plays a role in costimulation and immune regulation.

### Applications Reported

The 1C10 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

The 1C10 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Ferlin WG, von der Weid T, Cottrez F, Ferrick DA, Coffman RL, Howard MC. The induction of a protective response in Leishmania major-infected BALB/c mice with anti-CD40 mAb. *Eur J Immunol.* 1998 Feb;28(2):525-31.

Ferlin WG, Severinson E, Ström L, Heath AW, Coffman RL, Ferrick DA, Howard MC. CD40 signaling induces interleukin-4-independent IgE switching in vivo. *Eur J Immunol.* 1996 Dec;26(12):2911-5.

Heath AW, Wu WW, Howard MC. Monoclonal antibodies to murine CD40 define two distinct functional epitopes. *Eur J Immunol.* 1994 Aug;24(8):1828-34.

### Related Products

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11-0193 Anti-Mouse CD19 FITC (eBio1D3 (1D3))

17-4321 Rat IgG2a K Isotype Control APC (eBR2a)