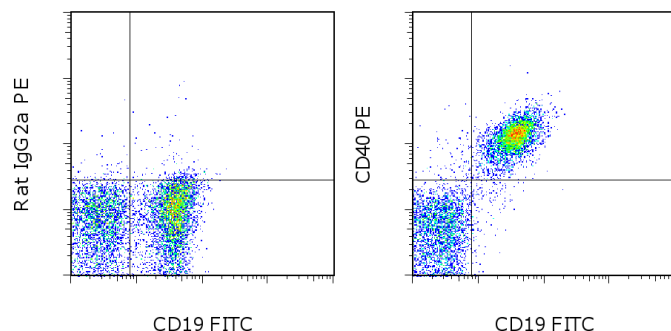


Anti-Mouse CD40 PE

Catalog Number: 12-0401

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 0.25 ug of Rat IgG2a K Isotype Control PE (cat. 12-4321) (left) or 0.25 ug of Anti-Mouse CD40 PE (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD40 PE

Catalog Number: 12-0401

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

Caution, contains 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 0.5 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 10⁵ to 10⁸ 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))

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)