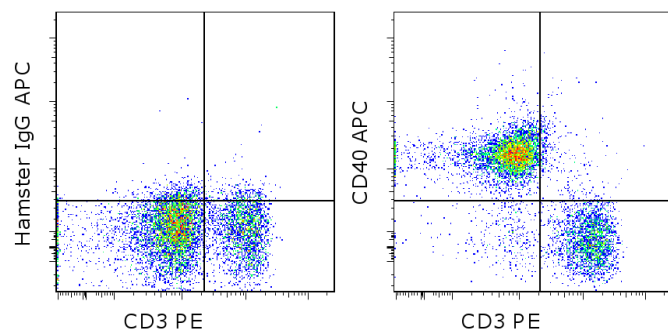


Anti-Mouse/Rat CD40 APC

Catalog Number: 17-0402

Also known as: TNFRSF5

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



Staining of C57Bl/6 splenocytes with Anti-Mouse CD3e PE (cat. 12-0031) and 0.5 ug of Armenian Hamster IgG Isotype Control APC (cat. 17-4888) (left) or 0.5 ug of Anti-Mouse/Rat CD40 APC (right). Total viable cells were used for analysis.

Product Information



Contents: Anti-Mouse/Rat CD40 APC

Catalog Number: 17-0402

Clone: HM40-3

Concentration: 0.2 mg/mL

Host/Isotype: Armenian Hamster IgM, 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

Description

The HM40-3 monoclonal antibody reacts with mouse and rat 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

This HM40-3 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This HM40-3 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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

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Ferlin, W. G., E. Severinson, et al. 1996. CD40 signaling induces interleukin-4-independent IgE switching in vivo. *Eur J Immunol* 26(12): 2911-5.

Kashiwada, M., Y. Yagita, et al. 1996. Activation of mitogen-activated protein kinases via CD40 is distinct from that stimulated by surface IgM on B cells. *Eur. J. Immunol.* 26: 1451-58

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Inaba, K., M. Witmer-Pack, et al. 1994. The tissue distribution of the B7-2 costimulator in mice: abundant expression on dendritic cells in situ and during maturation in vitro. J. Exp. Med. 180:1849-60.

Related Products

12-0031 Anti-Mouse CD3e PE (145-2C11)