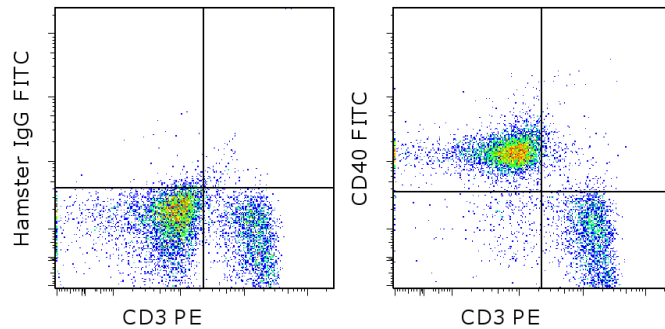


## Anti-Mouse/Rat CD40 FITC

**Catalog Number:** 11-0402

**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  $\mu$ g of FITC Armenian Hamster IgG Isotype Control (cat. 11-4888) (left) or 0.5  $\mu$ g of Anti-Mouse/Rat CD40 FITC (right). Total viable cells were used for analysis.

### Product Information



**Contents:** Anti-Mouse/Rat CD40 FITC

**Catalog Number:** 11-0402

**Clone:** HM40-3

**Concentration:** 0.5 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

**Caution, contains Azide**

### 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

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

### Applications Tested

The HM40-3 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions and can be used at less than or equal to 1  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Trinite, B., C. Voisine, et al. 2000. A subset of cytolytic dendritic cells in rat. *J. Immunol.* 165(8): 4202-8.

Kawano, T., J. Cui, et al. 1997. CD1d-restricted and TCR-mediated activation of Va14 NKT cells by glycosylceramides. *Science* 278: 1626-9

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)

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