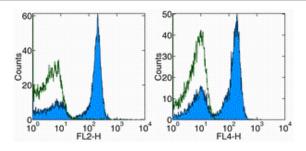


Anti-Mouse CD40 Functional Grade Purified

Catalog Number: 16-0401 Also Known As:TNFRSF5 RUO: For Research Use Only



Staining of mouse splenocytes with Anti-Mouse CD40 PE (left)or APC (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD40 Functional Grade Purified

REF Catalog Number: 16-0401

Clone: 1C10

Concentration: 1 mg/ml Host/Isotype: Rat IgG2a, κ

Handling Conditions: Use in sterile environment. **Endotoxin Level:** Less than 0.001 ng/ug antibody, as

determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

Temperature Limitation: Store at 2-8°C.

☐ Batch Code: Refer to Vial
☐ Use By: Refer to Vial

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. It has also been reported in in vitro activation of B cells.

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 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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, W. G., T. von der Weid, et al. (1998). "The induction of a protective response in Leishmania major-infected BALB/c mice with anti-CD40 mAb." <u>Eur J Immunol</u> 28(2): 525-31.

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

Heath, A. W., W. Wu, et al. (1994). "Monoclonal antibodies to murine CD40 define two distinct functional epitopes." <u>Eur J Immunol</u> 24(8): 1828-34.

Related Products

11-0402 Anti-Mouse/Rat CD40 FITC (HM40-3)

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-0402 Anti-Mouse/Rat CD40 Biotin (HM40-3)

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-0402 Anti-Mouse/Rat CD40 Purified (HM40-3)

16-0402 Anti-Mouse/Rat CD40 Functional Grade Purified (HM40-3) 16-4321 Rat IgG2a K Isotype Control Functional Grade Purified 17-4317 Streptavidin APC

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