

TECHNICAL DATA SHEET

Biotin Anti-Mouse CD154 (MR1)

Catalog Number: 30-1541

PRODUCT INFORMATION

Contents: Biotin Anti-Mouse CD154 (MR1)

Isotype: Armenian Hamster IgG

Concentration: 0.5 mg/mL

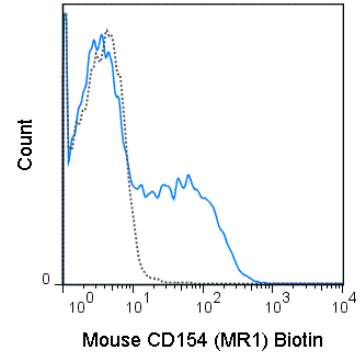
Clone: MR1

Reactivity: Mouse

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, pH7.2



C57Bl/6 T cells, enriched from total splenocytes, were stimulated with PMA and ionomycin for 6 hours and stained with 0.25 ug Biotin Anti-Mouse CD154 (30-1541) (solid line) or 0.25 ug Biotin Armenian Hamster IgG isotype control (dashed line), followed by Streptavidin PE.

DESCRIPTION

The MR1 antibody is specific for mouse CD154, a 39 kD glycoprotein that is primarily expressed on activated T cells. CD154 (CD40 ligand, gp39) binds to CD40 expressed on antigen presenting cells and mediates important costimulatory functions between these cells. Signals generated via cognate interactions between CD154-CD40 on activated T and B cells are required for T-dependent B cell responses. The MR1 antibody is reported to block interaction of CD154 with CD40.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted biotin removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

REFERENCES

Noelle RJ, Roy M, Shepherd DM, Stamenkovic I, Ledbetter JA, Aruffo A. 1992. Proc Natl Acad Sci U S A. 89(14):6550-6554. Foy TM, Laman JD, Ledbetter JA, Aruffo A, Claassen E, Noelle RJ. 1994. J Exp Med. 180(1):157-163. Laman JD, Claassen E, Noelle RJ. 1996. Crit Rev Immunol. 16(1):59-108. Grewal IS, Flavell RA. 1998. Annu Rev Immunol. 16:111-35.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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