

TECHNICAL DATA SHEET

PE Anti-Mouse CD154 (MR1)

Catalog Number: 50-1541

PRODUCT INFORMATION

Contents: PE Anti-Mouse CD154 (MR1)

Isotype: Armenian Hamster IgG

Concentration: 0.2 mg/mL

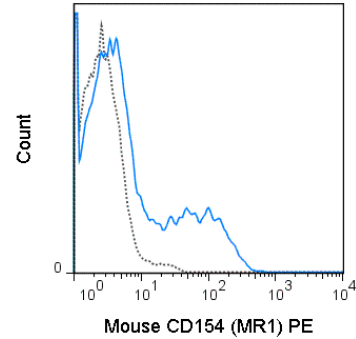
Clone: MR1

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% Na₃N, 0.1% gelatin, pH7.2



C57Bl/6 T cells, enriched from total splenocytes, were stimulated with PMA and ionomycin for 6 hours and stained with 0.06 ug PE Anti-Mouse CD154 (50-1541) (solid line) or 0.06 ug PE Armenian Hamster IgG isotype control (dashed line).

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 dye 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). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your 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.

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.