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Biotin Anti-Mouse CD154 (MR1) Antibody

Catalog # ATB10081

Specification

Biotin Anti-Mouse CD154 (MR1) Antibody - Product Information

Application	**FC**
Isotype	**Armenian Hamster IgG**
Concentration	**0.5 mg/mL**
Reactivity	**Mouse**
Formulation	**10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH7.2**
Host	**Armenian Hamster**

Biotin Anti-Mouse CD154 (MR1) Antibody - Additional Information

Gene ID	**21947**
Gene Name	**Cd40lg**

Alternative Name(s)
CD40L, TRAP, Ly-62, TNFSF5

Format
Biotin

Preparation
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). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system. For detection of CD154 on in vitro activated T cells, it is recommended that T cells be enriched using a depletion strategy prior to stimulation.

Storage Conditions
2-8°C protected from light

Biotin Anti-Mouse CD154 (MR1) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

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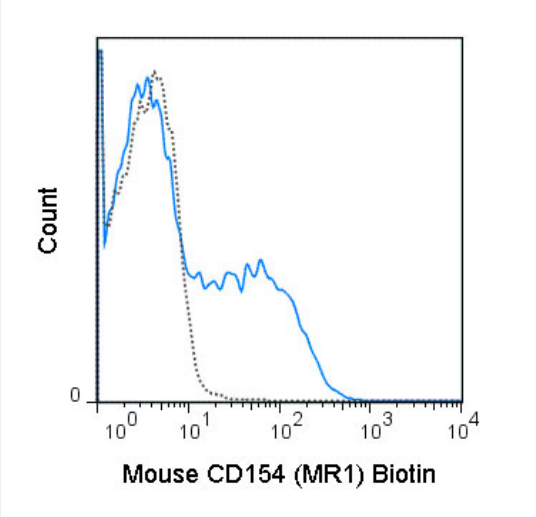
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Biotin Anti-Mouse CD154 (MR1) Antibody - Images



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 (ATB10081) (solid line) or 0.25 ug Biotin Armenian Hamster IgG isotype control (dashed line), followed by

Biotin Anti-Mouse CD154 (MR1) Antibody - Background

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.