Hamster Anti-Mouse CD154

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1650-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
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<tr>
<td>1650-02</td>
<td>Fluorescein (FITC)</td>
<td>0.5 mg</td>
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<tr>
<td>1650-08</td>
<td>Biotin (BIOT)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1650-09</td>
<td>R-phycoerythrin (PE)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>1650-14</td>
<td>Low Endotoxin, Azide-Free (LE/AF)</td>
<td>0.5 mg</td>
</tr>
</tbody>
</table>

Overview

Clone | MR1
Isotype | Hamster (Armenian) IgG3
Immunogen | Activated mouse Tc1 clone D1.6
Specificity | Mouse CD154; Mr 39 kDa
Alternate Name(s) | CD40L, CD40 ligand, gp39

Description

CD154, formerly known as CD40 ligand and gp39, is a type II integral membrane protein and a member of the tumor necrosis factor (TNF) family of ligands. It is an important accessory molecule in T cell-B cell costimulatory interactions and is expressed predominantly on activated CD4⁺ T lymphocytes. It is also present on the surface of activated Th0, Th1, and Th2 T cell clones. Its expression is transient and cyclosporin-sensitive. The MR1 monoclonal antibody binds to murine CD154 with high affinity, blocks binding to CD40, and blocks CD154 function. Administration of this antibody to mice blocks the ability to mount primary and secondary immune responses to TD antigens yet does not alter the immune response to TI antigens.

Applications

- FC – Quality tested
- IHC-FS – Reported in literature
- IP – Reported in literature
- Block – Reported in literature
- ELISA – Reported in literature

Working Dilutions

- **Flow Cytometry**: FITC and BIOT conjugates ≤ 2 µg/10⁶ cells
- PE conjugate ≤ 0.2 µg/10⁶ cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL.

Other Applications

Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO_3_. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO_3_. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNO_3_ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References