Mouse Anti-Mouse H-2K<sup>d</sup>/H-2D<sup>d</sup>

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1911-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1911-02</td>
<td>Fluorescein (FITC)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1911-08</td>
<td>Biotin (BIOT)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1911-09</td>
<td>R-phycoerythrin (PE)</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

**Overview**

- **Clone**: 34-1-2S
- **Isotype**: Mouse (C3H) IgG<sub>2a</sub>κ
- **Immunogen**: BDF<sub>1</sub> mouse splenocytes
- **Specificity**: Mouse H-2K<sup>d</sup>/H-2D<sup>d</sup>
- **Alternate Name(s)**: MHC Class I

**Description**

The “classical” MHC Class I molecules are histocompatibility antigens encoded by the H-2 gene complex and consist of heterodimers of highly polymorphic α chains noncovalently associated with the invariant β<sub>2</sub>-microglobulin. These antigens are expressed on most nucleated cells but expression varies on different cell types. MHC Class I molecules present endogenously synthesized peptides to CD8<sup>+</sup> T lymphocytes, which are usually cytotoxic T cells. MHC Class I antigens expressed on thymic epithelial cells regulate the positive and negative selection of CD8<sup>+</sup> T cells during T cell ontogeny. The monoclonal antibody 34-1-2S binds to a common determinant in the α<sub>3</sub> domains of H-2K<sup>d</sup> and H-2D<sup>d</sup> in the presence or absence of β<sub>2</sub>-microglobulin. It cross reacts with the α<sub>3</sub> domain of H-2K<sup>b</sup>.

**Applications**

- FC – Quality tested<br> 3,4
- ICC – Reported in literature 3,5
- EM – Reported in literature 4
- IP – Reported in literature 2
- CMCD – Reported in literature 3
- Block – Reported in literature 6
- Adhesion – Reported in literature 6

**Working Dilutions**

**Flow Cytometry**

- Purified (UNLB) antibody: ≤ 1 µg/10<sup>6</sup> cells
- FITC and BIOT conjugates: ≤ 1 µg/10<sup>6</sup> cells
- PE conjugate: ≤ 0.1 µg/10<sup>6</sup> 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/NaNO₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNO₃ and a stabilizing agent. Store at 2-8°C. Do not freeze!
- 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 (M)SDS.

References