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>2α</sub>  
**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  
ICC – Reported in literature  
EM – Reported in literature  
IP – Reported in literature  
CMCD – Reported in literature  
Block – Reported in literature  
Adhesion – Reported in literature

**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.
**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**