FITC Rat Anti-Mouse Vβ 11 T-Cell Receptor

Product Information

Material Number: 553197
Alternate Name: TCR V beta 11
Size: 0.25 mg
Concentration: 0.5 mg/ml
Clone: RR3-15
Immunogen: Mouse Cytolytic T-Cell Clone OH6
Isotype: Rat (F344) IgG2b, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The RR3-15 antibody reacts with the Vβ 11 T-Cell Receptor (TCR) of mice having the b haplotype (e.g., A, C57BL, C58, DBA/1) of the Tcrb gene complex. The Tcrb-V11 gene locus is deleted in mice having the a (e.g., C57BR, C57L, SJL, SWR) and c (e.g., RIJ) haplotypes. Vβ TCR-bearing T lymphocytes are clonally eliminated in mice expressing I-E and superantigens encoded by Mtv-9 (Etc-1, Ms[?], Dvb11.2) and/or Mtv-11 (Ms[f], Dvb 11.2) proviruses (e.g., AKR, BALB/c, BAA/I, C3H, DBA/2), and they are incompletely eliminated in mice expressing I-E and Mtv-8 (Ms[f], Dvb 11.1) superantigen (e.g., A). Activation of Vβ 11 TCR-expressing T cells by these determinants is dependent upon presentation by I-E. The bacterial superantigen Staphylococcal enterotoxin A (SEA) also interacts with Vβ 11 TCR, and in vivo exposure to SEA causes activation and subsequent deletion of Vβ TCR-expressing lymphocytes. Plate-bound RR3-15 antibody activates Vβ 11 TCR-bearing T cells.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

| Flow cytometry | Routinely Tested |

Recommended Assay Procedure:

For flow cytometry of cell suspensions from peripheral lymphoid tissues, it is recommended that multicolor staining be performed to distinguish T lymphocytes from non-T cells.
### Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
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<tr>
<td>553988</td>
<td>FITC Rat IgG2b, κ Isotype Control</td>
<td>0.25 mg</td>
<td>A95-1</td>
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<tr>
<td>553048</td>
<td>PE Rat Anti-Mouse CD4</td>
<td>0.1 mg</td>
<td>RM4-5</td>
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<tr>
<td>553032</td>
<td>PE Rat Anti-Mouse CD8a</td>
<td>0.1 mg</td>
<td>53-6.7</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<td>PE Rat Anti-Mouse CD4</td>
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<tr>
<td>553033</td>
<td>PE Rat Anti-Mouse CD8a</td>
<td>0.2 mg</td>
<td>53-6.7</td>
</tr>
</tbody>
</table>

### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

### References


Hodes RJ, Abe R. Mouse endogenous superantigens: Ms and Ms-like determinants encoded by mouse retroviruses. *Curr Protoc Immunol.* 2001; Appendix 1:Appendix 1F. (Biology)

