**Product Information**

Material Number: 553194  
Alternate Name: TCR V beta 6; TCR Vβ6  
Size: 0.1 mg  
Concentration: 0.2 mg/ml  
Clone: RR4-7  
Immunogen: C57BL/6 Mouse Helper T-Cell Clone OI11  
Isootype: Rat (F344) IgG2b, λ  
Reactivity: QC Testing: Mouse  
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The RR4-7 antibody specifically reacts with the Vβ6 T-Cell Receptor (TCR) of mice having the a (e.g., C57BR, C57L, SIL) and b (e.g., A, BALB/c, CBA/Ca, C3H/He, C57BL, DBA/1) haplotypes of the Tcrb gene complex. The Tcrb-V6 gene locus is deleted in mice having the c (e.g., RI) haplotype. Vβ6 TCR-bearing T lymphocytes are clonally eliminated in mice expressing superantigen encoded by Mtv-7 (Mls-1[a]), Mls[a] endogenous provirus (e.g., AKR, CBA/1, C58, DBA/2, NZB), or Mtv-43 endogenous provirus (e.g., MA/Myl). Exogenous MMTV-SW, as well as endogenous Mtv-44 encoded superantigen (e.g., NZW), also causes incomplete elimination of Vβ6 TCR-expressing T cells. Plate-bound RR4-7 antibody activates Vβ6 TCR-bearing T cells, soluble RR4-7 mAb blocks in vitro proliferation and cytolytic activities of Vβ6 TCR-bearing T-cell clones, and injection of the antibody results in in vivo depletion of Vβ6 TCR-bearing T cells.

**Preparation and Storage**

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

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

**Application Notes**

**Application**  
Flow cytometry  
Routinely Tested
### Suggested Companion Products

<table>
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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
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<tr>
<td>553989</td>
<td>PE Rat IgG2b, κ Isotype Control</td>
<td>0.1 mg</td>
<td>A95-1</td>
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<tr>
<td>553046</td>
<td>FITC Rat Anti-Mouse CD4</td>
<td>0.1 mg</td>
<td>RM4-5</td>
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<tr>
<td>553030</td>
<td>FITC Rat Anti-Mouse CD8a</td>
<td>0.1 mg</td>
<td>53-6.7</td>
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<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>Stain Buffer (BSA)</td>
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<td>FITC Rat Anti-Mouse CD8a</td>
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### 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