Technical Data Sheet

FITC Rat Anti-Mouse Vβ 6 T-Cell Receptor

Product Information

Material Number: 553193
Alternate Name: TCR V beta 6; TCR Vβ6
Size: 0.25 mg
Concentration: 0.5 mg/ml
Clone: RR4-7
Immunogen: C57BL/6 Mouse Helper T-Cell Clone OI11
Isotype: Rat (F344) IgG2b, λ
Reactivity: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The RR4-7 antibody specifically reacts with the Vβ 6 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-Vβ gene locus is deleted in mice having the c (e.g., RII) haplotype. Vβ 6 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/A, 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 Vβ 6 TCR-expressing T cells. Plate-bound RR4-7 antibody activates Vβ 6 TCR-bearing T cells, soluble RR4-7 mAb blocks in vitro proliferation and cytolytic activities of Vβ 6 TCR-bearing T-cell clones, and injection of the antibody results in in vivo depletion of Vβ 6 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 FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Flow cytometry/immunoassay

Routinely Tested
## Suggested Companion Products

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<td>FITC Rat IgG2b, λ Isotype Control</td>
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<td>A95-1</td>
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<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>
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<td>53-6.7</td>
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<td>554656</td>
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<td>Stain Buffer (BSA)</td>
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<td>PE Rat Anti-Mouse CD4</td>
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<td>PE Rat Anti-Mouse CD8a</td>
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<td>53-6.7</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


