Technical Data Sheet
FITC Rat Anti-Mouse Vβ 7 T-Cell Receptor

Product Information
Material Number: 553215
Size: 0.25 mg
Concentration: 0.5 mg/ml
Clone: TR310
Immunogen: AKR/Cum Mouse spontaneous T Lymphoma Cell Line TK1
Isotype: Rat (F344) IgG2b, κ
Reactivity: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description
The TR310 antibody reacts with the Vβ 7 T-Cell Receptor (TCR) of strains having the a (e.g., C57BR, C57L, SJL), b (e.g., A, BALB/c, CBA/Ca, C3H/He, C57BL, DBA/1), and c (e.g., RIII) haplotypes of the Tcrb gene complex. Vβ 7 is among the predominant TCRs expressed by NK-T cells of C57BL/6 mice. Vβ 7 TCR-bearing T lymphocytes are clonally eliminated in mice expressing superantigens encoded by Mtv-7 (Mls-1[a], Mls[a]) endogenous proviruses (e.g., AKR, CBA/J, C58, DBA/2, NZB). Activation or elimination of Vβ 7 TCR-expressing T cells by these determinants is partially dependent upon presentation by I-E. Mtv-43 and/or exogenous MMTV-SW superantigens also cause incomplete elimination of Vβ 7 TCR-bearing T cells.

Preparation and Storage
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. 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

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<td>553048</td>
<td>PE Rat Anti-Mouse CD4</td>
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<td>RM4-5</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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<td>553988</td>
<td>FITC Rat IgG2b, κ Isotype Control</td>
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<td>A95-1</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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.

References