Technical Data Sheet
Biotin Rat Anti-Mouse Vα 3.2 [b,c] TCR

Product Information
Material Number: 553218
Size: 0.25 mg
Concentration: 0.5 mg/ml
Clone: RR3-16
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 RR3-16 antibody reacts with the Vα 3.2 T-Cell Receptor (TCR) of mice having the b (e.g., C57BL) and c (e.g., SWR, SJL, NZB, NOD) haplotypes of the Tcra gene complex, but not with TCR encoded by other members of Tcra-V3 gene subfamily. RR3-16 antibody does not react with strains having the a (e.g., A, AKR, BALB/c, CBA, C3H/He) or d (e.g., DBA/1, DBA/2, NZW) Tcra haplotypes. In addition, it has been shown that frequencies of Vα 3.2+ CD8+ T cells from homozygous H-2k/H-2k mice are moderately higher than those from heterozygous H-2k/H-2d mice, suggesting positive selection by H-2k.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Two-color analysis of the expression of Vα 3.2[b,c] TCR on peripheral lymphocytes. C57BL/6 lymph node leukocytes were simultaneously stained with biotinylated RR3-16 (right panel), PE-conjugated anti-mouse CD4 RM-4-5 (Cat. No. 553048/553049), and PE-conjugated anti-mouse CD8a 53-6.7 (Cat. No. 553032/553033) monoclonal antibodies, followed by Avidin-FITC (Cat. No. 554057). Flow cytometry was performed on a BD FACScan flow cytometry system.

Preparation and Storage
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes
Application
Flow cytometry Routinely Tested

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### Suggested Companion Products

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<td>PE Rat Anti-Mouse CD4</td>
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<tr>
<td>553032</td>
<td>PE Rat Anti-Mouse CD8a</td>
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<td>554057</td>
<td>Avidin FITC</td>
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<td>553987</td>
<td>Biotin Rat IgG2b, κ Isotype Control</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