FITC Hamster Anti-Mouse Vβ 3 T-Cell Receptor

**Product Information**

- **Material Number:** 553208
- **Alternate Name:** TCR V beta 3; TCR Vβ3
- **Size:** 0.25 mg
- **Concentration:** 0.5 mg/ml
- **Clone:** KJ25
- **Immunogen:** αβ TCR purified from mouse T-cell hybridoma 2B4.6
- **Isotype:** Armenian Hamster IgG2, κ
- **Reactivity:** Mouse
- **Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The KJ25 antibody specifically reacts with the Vβ 3 T-cell Receptor (TCR) of strains having the a (e.g., C57BR, SJL), b (e.g., AKR, CBA/Ca, C57BL, DBA/1), and c (e.g., RII) haplotypes of the Tcrb gene complex. Vβ 3 TCR-bearing T lymphocytes are clonally eliminated either completely or partially in mice expressing superantigens encoded by the Mtv-1 (Mls-3[a]), Mtv-2 (Mls[3]), Mtv-3 (Mls[1]), Mtv-6 (Mls-3[a], Mls[3]), Mtv-13 (Mls-2[a], Mls[c]), Mtv-27, Mtv-44, and/or Mtv-MAI endogenous proviruses (e.g., A, BALB/c, CBA/J, C3H/He, DBA/2, NZB, NZW). Vβ 3 TCR-bearing T cells are activated by the superantigenic Staphylococcal Enterotoxins A and B. Activation or elimination of Vβ 3 TCR-expressing T cells by these determinants is partially dependent upon presentation by I-E. This hamster mAb to a mouse leukocyte antigen does not cross-react with rat leukocytes.

**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**

**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>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>553048</td>
<td>PE Rat Anti-Mouse CD4</td>
<td>0.1 mg</td>
<td>RM4-5</td>
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<td>553032</td>
<td>PE Rat Anti-Mouse CD8a</td>
<td>0.1 mg</td>
<td>53-6.7</td>
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<td>550056</td>
<td>FITC Hamster IgG2 x Isotype Control</td>
<td>0.25 mg</td>
<td>B81-3</td>
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<tr>
<td>553049</td>
<td>PE Rat Anti-Mouse CD4</td>
<td>0.2 mg</td>
<td>RM4-5</td>
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<tr>
<td>553033</td>
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<td>53-6.7</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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</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. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/documents/hamster_chart_11x17.pdf.
5. 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)


