**Product Information**

- **Material Number:** 553212
- **Size:** 0.25 mg
- **Concentration:** 0.5 mg/ml
- **Clone:** KJ23
- **Immunogen:** Mouse T cells
- **Isotype:** Mouse (BALB/c) IgG2a, κ
- **Reactivity:** Mouse
- **Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The KJ23 monoclonal antibody specifically recognizes Vβ 17[a] T-cell Receptor (TCR) of mice having the a haplotype (eg, C57L, SJL, SWR) of the Tcrb gene complex. Strains having the b (eg, A, AKR, BALB/c, CBA/Ca, C3H/He, C57BL, C58, DBA/1, DBA/2) Tcrb haplotype do not express functional Vβ 17 TCR, and the Tcrb-V17 gene locus is deleted in mice having the c (eg, RIJ) haplotype. Vβ 17[a] TCR-bearing lymphocytes are clonally eliminated in mice expressing I-E (eg, C57BR). KJ23 antibody also recognizes two phenotypic variants of the Vβ 17[a] TCR: Vβ 17[a2] expressed in a variety of wild-derived mouse strains and Vβ 17[a(cz)] expressed in Mtv-free CZ mice. The effects of Mtv-encoded superantigens upon Vβ 17[a] TCR-bearing T cells has been reviewed. Plate-bound KJ23 antibody activates Vβ 17[a] TCR-bearing T cells, and injection of the antibody can deplete Vβ 17[a]-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**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553032</td>
<td>PE Rat Anti-Mouse CD8a</td>
<td>0.1 mg</td>
<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.
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


