Product Information

Material Number: 553365
Size: 0.25 mg
Concentration: 0.5 mg/ml
Clone: KT4
Immunogen: KT4 B10.D2 mouse T-cell clone 13
Isotype: Rat (SD) IgG2b, κ
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The KT4 antibody reacts with the Vβ4 T-cell Receptor (TCR) of mice having the a (e.g., C57BR, C57L, SJL, SWR), b (e.g., A, AKR, BALB/c, CBA, C3H/He, C57BL, C58, DBA/1, DBA/2), and c (e.g., RII) haplotypes of the Tcrb gene complex. Vβ4 TCR-bearing cells are among the CD4+ autoreactive T cells which induce autoimmune thyroiditis after elimination of regulatory (CD5-bright) T-cell subsets. Plate-bound KT4 antibody activates Vβ4 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

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<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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<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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<tr>
<td>553988</td>
<td>FITC Rat IgG2b, κ Isotype Control</td>
<td>0.25 mg</td>
<td>A95-1</td>
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</tbody>
</table>

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

