FITC Hamster Anti-Mouse Vγ 2 T-Cell Receptor

Product Information

Material Number: 553226
Size: 0.25 mg
Concentration: 0.5 mg/ml
Clone: UC3-10A6
Immunogen: Not Reported
Isotype: Armenian Hamster IgG1, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The UC3-10A6 antibody reacts with Vγ 2 T-cell Receptor (TCR)-bearing T lymphocytes, which make up significant proportions of γδ TCR-bearing cells in the late fetal and adult thymus and adult peripheral lymphoid tissues and lung. The frequency of Vγ 2 TCR-bearing splenocytes differs among inbred mouse strains; in C57BL/6 mice, the frequency increases dramatically during the four weeks after birth. Plate-bound UC3-10A6 antibody activates Vγ 2 TCR-bearing T cells. Please note that the Vγ 2 designation correlates with the nomenclature of Garman, Doherty, and Raulet; the Vγ 4 designation of Heiligand Tonegawa is equivalent.

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.

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>553971</td>
<td>FITC Hamster IgG1 κ Isotype Control</td>
<td>0.25 mg</td>
<td>A19-3</td>
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</tbody>
</table>

Product Notices

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


3. 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/pharmingen/hamster_chart_11x17.pdf.

4. 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.

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Kelly KA, Pearse M, Lefrancois L, Scollay R. Emigration of selected subsets of gamma delta + T cells from the adult murine thymus. *Int Immunol.* 1993; 5(4):331-335. (Biology)

O'Brien RL, Yin X, Huber SA, Ikuta K, Born WK. Depletion of a gamma delta T cell subset can increase host resistance to a bacterial infection. *J Immunol.* 2000; 165(11):6472-6479. (Biology)

Sperling AI, Cron RQ, Decker DC, Stern DA, Bluestone JA. Peripheral T cell receptor gamma delta variable gene repertoire maps to the T cell receptor loci and is influenced by positive selection. *J Immunol.* 1992; 149(10):3200-3207. (Biology)

Sperling AI, Decker DC, DiPaolo RJ, Stern DA, Shum A, Bluestone JA. Selective expansion of Vgamma2-Vdelta7 TCR gammadelta cells in C57BL/6 mice is postnatal and extrathymic. *J Immunol.* 1997; 159(1):86-91. (Biology)