Technical Data Sheet

Purified NA/LE Hamster Anti-Mouse TCR β Chain

Product Information

Material Number: 553166
Size: 0.5 mg
Concentration: 1.0 mg/ml
Clone: H57-597
Immunogen: TCR affinity-purified from mouse T-cell hybridoma DO-11.10
Isotype: Armenian Hamster IgG2, λ1
Reactivity: QC Testing: Mouse
Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

Description

The H57-597 antibody reacts with a common epitope of the β chain of the T-cell Receptor (TCR) complex on αβ TCR-expressing thymocytes and peripheral T lymphocytes and NK1.1+ thymocytes and NK-T cells of all mouse strains tested. It does not react with γδ TCR-bearing T cells. In the fetal and adult thymus, the TCR β-chain may form homodimers or pair with the pre-TCR α-chain on the surface of immature thymocytes before expression of the TCR α-chain. Plate-bound or soluble H57-597 antibody activates αβ TCR-bearing T cells, and plate-bound mAb can induce apoptotic death.

Preparation and Storage

Store undiluted at 4°C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Routinely Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow cytometry</td>
<td>Reported</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>Reported</td>
</tr>
<tr>
<td>Western blot</td>
<td>Reported</td>
</tr>
<tr>
<td>Stimulation</td>
<td>Reported</td>
</tr>
<tr>
<td>Depletion</td>
<td>Reported</td>
</tr>
<tr>
<td>Immunohistochemistry-frozen</td>
<td>Reported</td>
</tr>
<tr>
<td>Immunohistochemistry-formalin</td>
<td>Not Recommended</td>
</tr>
</tbody>
</table>

Recommended Assay Procedure:

Flow cytometry: It has been observed that pre-incubation of thymus cell suspensions at 37°C for 2-4 hours prior to staining enhances the ability of anti-CD3e and anti-TCR β chain mAbs to detect the T cell receptor on immature thymocytes.

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553961</td>
<td>Purified NA/LE Hamster IgG2, λ1 Isotype Control</td>
<td>0.5 mg</td>
<td>Ha4/8</td>
</tr>
<tr>
<td>554011</td>
<td>FITC Mouse Anti-Armenian and Syrian Hamster IgG Cocktail</td>
<td>0.5 mg</td>
<td>(none)</td>
</tr>
<tr>
<td>553167</td>
<td>Purified Hamster Anti-Mouse TCR β Chain</td>
<td>0.5 mg</td>
<td>H57-597</td>
</tr>
</tbody>
</table>

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.

References


BD Biosciences

bdbiosciences.com

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited. For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2011 BD