BV510 Hamster Anti-Mouse γδ T-Cell Receptor

Product Information

Material Number: 563218
Alternate Name: Tcrd; T-cell receptor delta chain; Tcr delta
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: GL3
Immunogen: C57BL/6 Mouse Intestinal Intraepithelial Lymphocytes
Isotype: Armenian Hamster IgG2, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The GL3 monoclonal antibody specifically binds to a common epitope of the δ chain of the T-cell Receptor (TCR) complex on γδ TCR-expressing T lymphocytes and NK-T cells of all mouse strains tested. It does not react with αβ TCR-bearing T cells. In the mouse, cells expressing the γδ TCR are found in the thymus, intestinal epithelium, epidermis, dermis, pulmonary epithelium, peritoneum, liver, and peripheral lymphoid organs.

The antibody was conjugated to BD Horizon™ BV510 which is part of the BD Horizon™ Brilliant Violet™ family of dyes. With an Ex Max of 405-nm and Em Max at 510-nm, BD Horizon™ BV510 can be excited by the violet laser and detected in the BD Horizon™ V500 (525/50-nm) filter set. BD Horizon™ BV510 conjugates are useful for the detection of dim markers off the violet laser.

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 BD Horizon™ BV510 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV510 were removed.

Application Notes

Application

Flow cytometry Routinely Tested

Two-color flow cytometric analysis of γδ TCR expression on mouse peripheral T lymphocytes. C57BL/6 lymph node cells were preincubated with Purified Rat Anti-Mouse CD16/CD32 antibody (Mouse BD Fc Block™) (Cat. No. 553141/553142). The cells were then stained with PE Rat Anti-Mouse CD3 Molecular Complex (Cat. No. 555275/561799) and with either BD Horizon™ BV510 Hamster IgG2, κ Isotype Control (Cat. No. 563202) or BD Horizon™ BV510 Hamster Anti-Mouse γδ T-Cell Receptor antibody (Cat. No. 563218, Right Panel). Two-color flow cytometric dot plots showing the correlated expression of γδ T-Cell Receptor (or Ig isotype control staining) versus CD3 were derived from gated events with the forward and light scattering characteristics of viable cells. Flow cytometric analysis was performed using a BD™ LSR II Flow Cytometer System.
Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>(none)</td>
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<tr>
<td>563202</td>
<td>BV510 Hamster IgG2, x Isotype Control</td>
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<td>B81-3</td>
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<td>555275</td>
<td>PE Rat Anti-Mouse CD3 Molecular Complex</td>
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<td>561799</td>
<td>PE Rat Anti-Mouse CD3 Molecular Complex</td>
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<td>Purified Rat Anti-Mouse CD16/CD32</td>
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<td>Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. An isotype control should be used at the same concentration as the antibody of interest.
4. Please refer to wwwbdbiosciences.com/pharmingen/protocols for technical protocols.
5. 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.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at wwwbdbiosciences.com/colors.
7. Brilliant Violet™ 510 is a trademark of Sirigen.
8. 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://wwwbdbiosciences.com/documents/hamster_chart_11x17.pdf.

References


