BD Horizon™

BV510 Mouse Anti-Human CD122

Product Information

Material Number: 563093
Alternate Name: IL2RB; IL-2Rβ; IL-2R subunit beta; IL-2RB; IL15RB; IL-2/15Rb; IL-2R p75
Size: 50 Tests
Vol. per Test: 5 µl
Clone: Mik-β3
Immunogen: Human YTS Cell Line
Isotype: Mouse (BALB/c) IgG1, κ
Reactivity: Human
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The Mik-β3 monoclonal antibody specifically binds to CD122. CD122 is also known as IL-2/15Rβ because it is the shared p75 subunit (IL-12Rβ2/IL-15Rβ) of heteromeric receptors for IL-2 and IL-15. CD122 is a 70-75 kD type I transmembrane glycoprotein expressed on thymocytes, T cells, B cells, NK cells, monocytes, hematopoietic progenitor cells, fetal liver cells and stromal cells. The CD122 plays roles in the activation, differentiation and proliferation of various cell types including T cells, B cells and NK cells.

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.

Flow cytometric analysis of CD122 expression on human peripheral blood lymphocytes. Whole blood was stained with BD Horizon™ BV510 Mouse Anti-Human CD122 antibody (Cat. No. 563093; solid line histogram) or with a BD Horizon™ BV510 Mouse IgG1, κ Isotype Control (Cat. No. 562946; dashed line histogram). Erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometric analysis was performed using a BD™ LSR II Flow Cytometer System.

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

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<th>Application</th>
<th>Routinely Tested</th>
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<tr>
<td>Flow cytometry</td>
<td>Routinely Tested</td>
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Recommended Assay Procedure:

For optimal and reproducible results, BD Horizon Brilliant Stain Buffer should be used anytime two or more BD Horizon Brilliant dyes (including BD OptiBuild Brilliant reagents) are used in the same experiment. Fluorescent dye interactions may cause staining artifacts which may affect data interpretation. The BD Horizon Brilliant Stain Buffer was designed to minimize these interactions. More information can be found in the Technical Data Sheet of the BD Horizon Brilliant Stain Buffer (Cat. No. 565794/566349) or the BD Horizon Brilliant Stain Buffer Plus (Cat. No. 566385).

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For country contact information, visit bdbiosciences.com/contact

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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>
<td>500 mL</td>
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<tr>
<td>562946</td>
<td>BV510 Mouse IgG1, k Isotype Control</td>
<td>50 µg</td>
<td>X40</td>
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<tr>
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<td>BD FACSTM Lysing Solution</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<tr>
<td>563794</td>
<td>Brilliant Stain Buffer</td>
<td>100 Tests</td>
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<tr>
<td>566349</td>
<td>Brilliant Stain Buffer</td>
<td>1000 Tests</td>
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</tr>
<tr>
<td>566385</td>
<td>Brilliant Stain Buffer Plus</td>
<td>1000 Tests</td>
<td>(none)</td>
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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. BD Horizon Brilliant Violet 510 is covered by one or more of the following US patents: 8,575,303; 8,354,239.
7. BD Horizon Brilliant Stain Buffer is covered by one or more of the following US patents: 8,110,673; 8,158,444; 8,575,303; 8,354,239.

References


Schlossman SF. Stuart F. Schlossman .. et al., ed. *Leucocyte typing V: white cell differentiation antigens: proceedings of the fifth international workshop and conference held in Boston, USA, 3-7 November, 1993.* Oxford: Oxford University Press; 1995(Biology)
