**Product Information**

Material Number: 554063  
Size: 0.1 mg  
Concentration: 0.2 mg/ml  
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

Sav-APC-Cy7 is a useful second-step reagent for the indirect immunofluorescent staining of cells in combination with biotinylated primary antibodies for flow cytometric analysis. Sav-APC-Cy7/biotin conjugates can be used with APC-conjugated reagents to provide two independent staining parameters from a HeNe laser. When choosing reagents for a multicolor staining protocol, we recommend that the APC-Cy7 fluorochrome be reserved for detection of high-density antigens to assure adequate discrimination of antigen expression.

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Streptavidin was conjugated with dye under optimum conditions, and unconjugated Streptavidin and free dye were removed.

**Application Notes**

Application:  
Routinely Tested

**Suggested Companion Products**

<table>
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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tr>
<td>554656</td>
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<td>Stain Buffer (BSA)</td>
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<td>553028</td>
<td>Biotin Rat Anti-Mouse CD8a</td>
<td>0.1 mg</td>
<td>53-6.7</td>
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<td>APC Hamster Anti-Mouse CD3ε</td>
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Product Notices

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

2. 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.

3. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at wwwbdbiosciences.com/colors.

4. APC-Cy7 is a tandem fluorochrome composed of Allophycocyanin (APC), which is excited by laser lines between 595 and 647 nm and serves as an energy donor, coupled to the cyanine dye Cy7™, which acts as an energy acceptor and fluoresces at 780 nm. BD Biosciences Pharmingen has maximized the fluorochrome energy transfer in APC-Cy7, thus maximizing its fluorescence emission intensity, minimizing residual emission from APC, and minimizing required electronic compensation in multilaser-laser flow cytometry systems. Note: Although every effort is made to minimize the lot-to-lot variation in residual emission from APC, it is strongly recommended that every lot be tested for differences in the amount of compensation required and that individual compensation controls are run for each APC-Cy7 conjugate.

5. APC-Cy7 tandem fluorochrome emission is collected in a detector for fluorescence wavelengths of 750 nm and higher.

6. Please observe the following precautions: Absorption of visible light can significantly alter the energy transfer occurring in any tandem fluorochrome conjugate; therefore, we recommend that special precautions be taken (such as wrapping vials, tubes, or racks in aluminum foil) to prevent exposure of conjugated reagents, including cells stained with those reagents, to room illumination.

7. Warning: Some APC-Cy7 and PE-Cy7 conjugates show changes in their emission spectrum with prolonged exposure to formaldehyde. If you are unable to analyze fixed samples within four hours, we recommend that you use BD™ Stabilizing Fixative (Cat. No. 338036).

8. Cy is a trademark of GE Healthcare.


References
