Technical Data Sheet

NHP T/B/NK Cell Cocktail

Product Information

Material Number: 558639
Size: 50 tests
Vol. per Test: 20 ul
Reactivity: Human
Storage Buffer: Aqueous buffered solution containing BSA, protein stabilizer, and ≤0.09% sodium azide.

Description

Cocktail Component | Clone | Isotype
--- | --- | ---
FITC anti-Human CD3 | SP34-2 | mlgG1
PE anti-Human CD16 | 3G8 | mlgG1
APC anti-Human CD20 | L27 | mlgG1

The NHP T/B/NK Cocktail is a three-color reagent cocktail designed to identify NHP T, B, and NK lymphocyte populations by direct immunofluorescent staining with flow cytometric analysis. Clone SP34-2 is a mouse IgG1 isotype monoclonal antibody, descendant of SP34 (mouse IgG3), with the same specificity and reactivity pattern as the parent clone. It cross-reacts with a major subset of peripheral blood lymphocytes, but not monocytes or granulocytes, of baboon, and rhesus, cynomolgus, and pigtail macaque monkeys. The monoclonal antibody clone L27 reacts with CD20 found only on B lymphocytes. The monoclonal antibody clone 3G8 reacts with CD16, the 50-65 kDa transmembrane form of IgG Fc (FcγRIII), a human NK-cell-associated antigen. CD16 is expressed on NK cells as well as macrophages and granulocytes.

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 to APC under optimum conditions, and unconjugated antibody and free APC were removed.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.
### Application

**Flow cytometry Routinely Tested**

### Suggested Companion Products

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
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<td>558625</td>
<td>NHP T Lymphocyte Cocktail</td>
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<td>558659</td>
<td>Ig Isotype Control Cocktail - C</td>
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<td>558411</td>
<td>PerCP Mouse Anti-NHP CD45</td>
<td>50 tests</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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

3. 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.

4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.


### References