Product Information

Material Number: 560845
Alternate Name: B3GAT1; Beta-1,3-glucuronyltransferase 1; HNK1; LEU7; NK-1; GLCATP; GLCUATP
Size: 50 Tests
Vol. per Test: 5 µl
Clone: NK-1
Isotype: Mouse IgM, κ
Reactivity: QC Testing: Human

Storage Buffer: Aqueous buffered solution containing BSA, protein stabilizer, and ≤0.09% sodium azide.

Description

The NK-1 monoclonal antibody specifically reacts with a 110 kDa carbohydrate antigen associated with myelin-associated glycoprotein expressed on 7-35% of normal peripheral blood lymphocytes including a subset of natural killer cells, a subset of CD8-positive peripheral blood T cells, and on some neural tissues. CD57 is not expressed on granulocytes, platelets, red blood cells or thymocytes. The function of CD57 is still unclear, however, its expression on T-cell subsets occurs in late immune responses.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposition 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.

Application Notes

Application

| Flow cytometry | Routinely Tested |

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>550883</td>
<td>APC Mouse IgM, κ Isotype Control</td>
<td>0.1 mg</td>
<td>G155-228</td>
</tr>
<tr>
<td>555899</td>
<td>Lysing Buffer</td>
<td>100 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>349202</td>
<td>BD FACSTM Lysing Solution</td>
<td>100 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
</tbody>
</table>

Flow cytometric analysis of CD57 expression on human peripheral blood lymphocytes. Whole blood was stained with APC Mouse Anti-Human CD57 (Cat. No. 560845; solid line histogram) or with an APC Mouse IgM, κ Isotype Control (Cat. No. 550883; dashed line histogram). The erythrocytes were lysed with Lysing Buffer (Cat. No. 555899). The fluorescence histograms were derived from gated events with the forward and side light-scattering characteristics of viable lymphocytes. Flow cytometry was performed on a BD™ LSR II.
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. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References