Technical Data Sheet

PE Mouse Anti-Human CD14

Product Information

Material Number: 561707
Alternate Name: LPS receptor; LPS-R; Myeloid cell-specific leucine-rich glycoprotein
Size: 25 tests
Vol. per Test: 20 µl
Clone: M5E2
Isotype: Mouse IgG2a, κ
Reactivity: QC Testing: Human
Tested in Development: Baboon, Rhesus, Cynomolgus, Dog
Workshop: III 329
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The M5E2 monoclonal antibody specifically binds to CD14, a 53-55 kDa glycosylphosphatidylinositol (GPI)-anchored single chain glycoprotein expressed at high levels on monocytes. Additionally, the anti-CD14 antibody reacts with interfollicular macrophages, reticular dendritic cells, and some Langerhans cells. CD14 has been identified as a high affinity cell-surface receptor for complexes of lipopolysaccharide (LPS) and serum LPS-binding protein, LPB.

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 R-PE under optimum conditions, and unconjugated antibody and free PE 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>555574</td>
<td>PE Mouse IgG2a, κ Isotype Control</td>
<td>100 tests</td>
<td>G155-178</td>
</tr>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 ml</td>
<td>(none)</td>
</tr>
</tbody>
</table>

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

Profile of peripheral blood monocytes analyzed on a BD FACScan™ (BDIS, San Jose, CA)
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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

7. An isotype control should be used at the same concentration as the antibody of interest.

References


Wright SD, Ramos RA, Tobias PS, Ulevitch RJ, Mathison JC. CD14, a receptor for complexes of lipopolysaccharide (LPS) and LPS binding protein. Science. 1990; 249(4975):1431-1433. (Biology)