Technical Data Sheet

PE Mouse Anti-Human CD4

Product Information

Material Number: 556616
Size: 50 Tests
Vol. per Test: 20 µl
Clone: M-T477
Isotype: Mouse (BALB/c) IgG2a, κ
Reactivity: Tested in Development: Human

QC Testing: Rhesus, Cynomolgus, Baboon

Description
Clone M-T477 reacts with the human form of a 56 kDa transmembrane glycoprotein, CD4, present on the T-helper/inducer subset of normal human donor peripheral blood lymphocytes. This clone also cross-reacts with a subset of CD3-positive peripheral blood lymphocytes, but not monocytes, of both rhesus and cynomolgus macaque monkeys. Cross-reactivity on both lymphocytes and monocytes (weak) of baboon is also observed. The distribution of M-T477 reactivity on lymphocytes is similar for both human and monkey, with the majority of CD4-positive lymphocytes being CD8-negative and lacking reactivity with antibodies to B- or NK-cell markers.

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>
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<td>PE Mouse IgG2a, κ Isotype Control</td>
<td>50 Tests</td>
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<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>349202</td>
<td>BD FACSTM Lysing Solution</td>
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<td>555899</td>
<td>Lysing Buffer</td>
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Flow cytometric analysis of CD4 expression on rhesus macaque (Macaca mulatta) peripheral blood lymphocytes. Whole blood was stained with either PE Mouse IgG2a, κ Isotype Control (Cat. No. 556653; dashed line histogram) or PE Mouse Anti-Human CD4 (Cat. No. 556616; solid line histogram). Erythrocytes were lysed with BD FACSTM Lysing Solution (Cat. No. 349202). Fluorescence histograms were derived from gated events with the side and forward light-scatter characteristics of viable lymphocytes.
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. An isotype control should be used at the same concentration as the antibody of interest.
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. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.

References