FITC Mouse Anti-Human CD6

Product Information

Material Number: 555357
Alternate Name: T12, TP120
Size: 100 Tests
Vol. per Test: 20 µl
Clone: M-T605
Isotype: Mouse (BALB/c) IgG1, κ
Reactivity: QC Testing: Human
Workshop: IV T148
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The M-T605 monoclonal antibody specifically binds to CD6. CD6 is a 100-130 kDa type I transmembrane glycoprotein present on more than 80% of mature T cells and a subset of B cells. CD6 is also weakly expressed on cortical thymocytes. CD6 binds to CD166 and reportedly plays roles in cellular adhesion, costimulation of T lymphocyte proliferation, and the regulation of lymphocyte apoptosis. The antibody is useful for investigation of CD6+ B-cell function.

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 FITC under optimum conditions, and unreacted FITC was 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>555748</td>
<td>FITC Mouse IgG1, κ Isotype Control</td>
<td>100 Tests</td>
<td>MOPC-21</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</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 CD6 on human blood lymphocytes. Whole blood was stained with FITC Mouse Anti-Human CD6 (Cat. No. 555357; solid line histogram) and FITC Mouse IgG1, κ Isotype Control (Cat. No. 555748; dashed line histogram). 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 FACSscan™.
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. An isotype control should be used at the same concentration as the antibody of interest.
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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References