BD Pharmingen™
Technical Data Sheet
FITC Rat Anti-Mouse Ly-6C

Product Information
Material Number: 553104
Alternate Name: Ly6c; Lymphocyte antigen 6 complex, locus C; Lymphocyte antigen Ly-6C
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: AL-21
Isotype: Rat IgM, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description
The AL-21 monoclonal antibody specifically binds to a non-polymorphic determinant of Ly-6C, a 14-17 kDa GPI-linked cell-surface antigen found on some monocyte/macrophage populations, granulocytes, endothelial cells, plasma cells, and thymocyte, NK-cell, and T-subsets. Mice with the Ly-6-2 alloantigen (eg, AKR, C57BL, C57BR, C57L, C58, DBA/2, PL, SII, SWR, 129) have subsets of CD8+ and CD4+ Ly-6C+ T cells, while Ly-6-1 strains (eg, A, BALB/c, CBA, C3H/He, DBA/1, NZB) have only CD8+ Ly-6C+ T cells. Upregulation of Ly-6C expression on CD8+ T cells by interferons α and β and poly (I:C) has been described, and Ly-6C is a memory marker on CD8+ T cells.

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>553942</td>
<td>FITC Rat IgM, κ Isotype Control</td>
<td>0.25 mg</td>
<td>R4-22</td>
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<tr>
<td>561085</td>
<td>FITC Rat Anti-Mouse Ly-6C</td>
<td>25 µg</td>
<td>AL-21</td>
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<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>
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</tbody>
</table>

Product Notices
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References
Takahama Y, Sharrow SO, Singer A. Expression of an unusual T cell receptor (TCR)-V beta repertoire by Ly-6C+ subpopulations of CD4+ and/or CD8+ thymocytes. Evidence for a developmental relationship between Ly-6C+ thymocytes and CD4-CD8-TCR-alpha beta+ thymocytes. J Immunol. 1991; 147(9):2883-2891. (Clone-specific)