Technical Data Sheet

FITC Mouse Anti-Rat CD3

**Product Information**

- **Material Number:** 557354
- **Size:** 0.5 mg
- **Concentration:** 0.5 mg/ml
- **Clone:** 1F4
- **Immunogen:** F344 rat splenic T cells stimulated with PMA plus A23187
- **Isotype:** Mouse (BALB/c) IgM, κ
- **Reactivity:** Mouse (BALB/c) IgM, κ
- **Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The 1F4 antibody reacts with the T-cell receptor-associated CD3 cell-surface antigen found on thymocytes, peripheral T lymphocytes, and dendritic epidermal T cells. In vitro, immobilized 1F4 mAb induces T-cell proliferation, and soluble mAb synergizes with PMA for T-cell activation. Pre-incubation of splenocytes with mAb 1F4 blocks staining with mAb G4.18 (Cat. No. 559974/554830).

This antibody is routinely tested by flow cytometric analysis. Other applications were routinely tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

**Preparation and Storage**

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. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

**Application Notes**

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<thead>
<tr>
<th>Application</th>
<th>Routinely Tested</th>
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<tr>
<td>Flow cytometry</td>
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**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
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<tbody>
<tr>
<td>553474</td>
<td>FITC Mouse IgM, κ Isotype Control</td>
<td>0.25 mg</td>
<td>G155-228</td>
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**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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.

**References**

