

Technical Data Sheet

PE Mouse Anti-Rat CD3

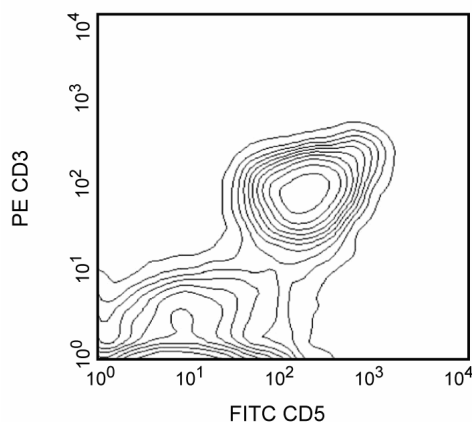
Product Information

Material Number:	550353
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	1F4
Immunogen:	F344 rat splenic T cells stimulated with PMA plus A23187
Isotype:	Mouse (BALB/c) IgM, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ 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 tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Two-color analysis of the expression of CD3 on rat splenocytes. A single-cell suspension of Lewis splenocytes was simultaneously incubated with the PE-conjugated 1F4 mAb and FITC-conjugated anti-rat CD5 mAb OX-19 (Cat. No. 551449). Flow cytometry was performed on a BD FACScan™ flow cytometry system.

Preparation and Storage

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 by gel filtration chromatography.

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

Application Notes

Application

Flow cytometry	Routinely Tested
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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.

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References

Elbe A, Kilgus O, Hünig T, and Stingl G. T-cell receptor diversity in dendritic epidermal T cells in the rat. *J Invest Dermatol.* 1993; 102:74-79.(Biology)
Nicolis MR, Aversa GG, Pearce NW, et al. Induction of long-term specific tolerance to allografts in rats by therapy with an anti-CD3-like monoclonal antibody. *Transplantation.* 1993; 55(3):459-468.(Biology)
Tanaka, T., Masuko, T., Yagita, H. et al.. Characterization of a CD3-like rat T cell surface antigen recognized by a monoclonal antibody.. *J Immunol.* 1989; 142:2791-2795.(Immunogen)

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