

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:	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 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

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553474	FITC Mouse IgM, κ Isotype Control	0.25 mg	G155-228

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.

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)
 Nicolls 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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