

Product Data Sheet

FITC anti-rat CD3

Catalog # / Size: 201403 / 100 µg

Clone: 1F4

Isotype: Mouse IgM, κ

Immunogen: F344 rat spleen cells stimulated with PMA and calcium ionophore

Reactivity: Rat

Preparation: The antibody was conjugated with FITC under optimal conditions, and is at

>85% purity. The solution is free of unconjugated FITC.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Immobilized 1F4 antibody can induce T cell proliferation *in vitro*. Additional reported applications (for relevant formats of this clone) include: immunohistochemistry of acetone-fixed frozen sections¹ and formaldehyde- fixed paraffin embedded sections⁴ immunofluorescence microscopy³, *in vivo* activation of T cell responses¹, and *in vivo* inhibition of

Application References: 1. Tanaka T, et al. 1989. J. Immunol. 142:2791. (Activ IHC IP) 2. Nicholls MR, et al. 1993. Transplantation 55:459. (Block)

3. Elbe A, et al. 1993. J. Invest. Dermatol. 102:74. (IF)

4. Baba T, et al. 2006. Blood 107:2004. (IHC) 5. Li X, et al. 2009. J. Immunol. 183:3955. (FC) PubMed 6. Treacy Q, et al. 2012. PLoS One. 7:e42662. PubMed.

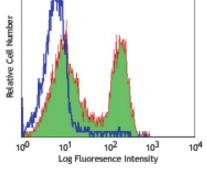
Description: CD3 is a complex composed of δ , γ , ϵ , and ζ chains. They are 20-25 kD members of the immunoglobulin superfamily and associated with the T cell receptor (TCR). CD3 is expressed on thymocytes, peripheral T cells, some NK-T cells, and dendritic epidermal T cells. CD3 is involved in antigen recognition, signal transduction, and T cell activation.

Antigen References: 1. Tanaka T, et al. 1989 J. Immunol. 142:2791.

2. Elbe A, et al. 1993. J. Invest. Dermatol. 102:74.

Related Products: Product Clone Application Cell Staining Buffer

FC, ICC, ICFC FITC Mouse IgM, κ Isotype Ctrl MM-30 FC, ICFC



LOU rat splenocytes stained with 1F4



