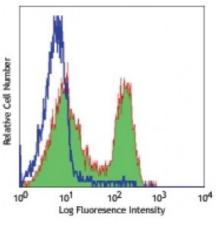
SONY

Product Data Sheet

FITC anti-rat CD3

Catalog # / Size:	1607015 / 100 μg
Clone:	1F4
Isotype:	Mouse IgM, к
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



LOU rat splenocytes stained with 1F4 FITC

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per million cells in 100 microL 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 <i>in vitro</i> . Additional reported applications (for relevant formats of this clone) include: immunohistochemistry of acetone-fixed frozen sections1 and formaldehyde- fixed paraffin embedded sections ^{4,5} immunofluorescence microscopy3, <i>in vivo</i> activation of T cell responses1, and <i>in vivo</i> inhibition of T cell responses2.
Application References:	 Tanaka T, <i>et al.</i> 1989. <i>J. Immunol.</i> 142:2791. (Activ, IHC, IP) Nicholls MR, <i>et al.</i> 1993. <i>Transplantation</i> 55:459. (Block) Elbe A, <i>et al.</i> 1993. <i>J. Invest. Dermatol.</i> 102:74. (IF) Baba T, <i>et al.</i> 2006. <i>Blood</i> 107:2004. (IHC) Fujishiro J, <i>et al.</i> 2010. <i>Am. J. Transplant.</i> 10:1545-55. (IHC-P) Li X, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:3955. (FC) <u>PubMed</u>
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).

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	1. Tanaka T, <i>et al.</i> 1989 <i>J. Immunol.</i> 142:2791.
References:	2. Elbe A, et al. 1993. J. Invest. Dermatol. 102:74.

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