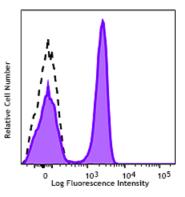
PerCP/Cyanine5.5 anti-rat CD3

Catalog # / Size:	1607090 / 100 μg 1607085 / 25 μg	
Clone:	1F4	
lsotype:	Mouse IgM, к	
lmmunogen:	F344 rat spleen cells stimulated with PMA and calcium ionophore	
Reactivity:	Rat	
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide	Lew
Workshop Number:	HCDM listed	stai Per hist
Concentration:	0.2 mg/mL	Per



Lewis rat splenocytes were stained with CD3 (clone 1F4) PerCP/Cyanine5.5 (filled histogram) or mouse IgM, κ PerCP/Cyanine5.5 isotype control (open histogram).

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 $\leq 1.0 \ \mu$ g per million cells in 100 μ L volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

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 sections^{4,5} immunofluorescence microscopy³, *in vivo* activation of T cell responses¹, and *in vivo* inhibition of T cell responses².

 Application
 1. Tanaka T, et al. 1989. J. Immunol. 142:2791. (Activ, IHC, IP)

 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. Fujishiro J, et al. 2010. Am. J. Transplant. 10:1545-55. (IHC-P)

 6. Li X, et al. 2009. J. Immunol. 183:3955. (FC) 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.

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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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