Product Data Sheet

PerCP/Cyanine5.5 anti-rat CD3

Catalog # / $1607085 / 25 \mu g$

Size: 1607090 / 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 purified by affinity

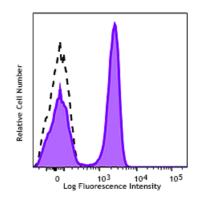
chromatography and conjugated with PerCP/Cyanine5.5 under optimal

conditions.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide

Concentration: 0.2 mg/mL



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 $100~\mu L$ 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 sections 1 and formaldehyde-fixed paraffin embedded sections 4,5 immunofluorescence microscopy 3 , *in vivo* activation of T cell responses 1 , and *in vivo* inhibition of T cell responses 2 .

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. 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.

 Tanaka T, et al. 1989 J. Immunol. 142:2791.
Elbe A, et al. 1993. J. Invest. Dermatol. 102:74. References: For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held

Antigen