

FITC anti-mouse CD3

Catalog # / Size: 100203 / 50 µg
100204 / 500 µg

Clone: 17A2

Isotype: Rat IgG2b, κ

Immunogen: γδTCR-positive T-T hybridoma D1

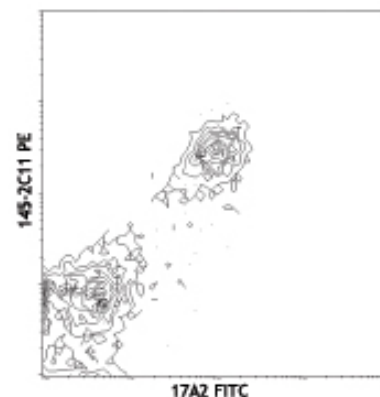
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. 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.**



C57BL/6 splenocytes stained with 17A2 FITC and 145-2C11 PE

Applications:

Applications: FC

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 ≤ 0.5 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation¹, complement-mediated cytotoxicity^{1,3}, immunohistochemical staining^{1,4} of acetone-fixed frozen sections, *in vitro* stimulation of T cells¹ and depletion² of CD3⁺ cells *in vivo*. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm sterile-filtered) is recommended for functional assays (Cat. No. 100208).

Application References:

1. Miescher, G.C., *et al.*, 1989. *Immunol. Lett.* 23:113.
2. Mysliwicz, J., *et al.*, 1992. *Blood* 80:2661.
3. Wu, L., *et al.*, 1991. *J. Exp. Med.* 174:1617.
4. Zhang, Y., *et al.*, 2002. *J. Immunol.* 168: 3088.
5. Zan, H., *et al.*, 2005. *EMBO J.* 24: 3757.
6. Zan, H., *et al.* 2005. *Immunity.* 14:643.PubMed

Description: CD3, also known as T3, is a member of the Ig superfamily and primarily expressed on T cells, NK-T cells, and at different levels on thymocytes during T cell differentiation. CD3 is composed of CD3ε, δ, γ and ζ chains. It forms a TCR complex by associating with TCR α/β or γ/δ chains. CD3 plays a critical role in TCR signal transduction, T cell activation, and antigen recognition by binding the peptide/MHC antigen complex. The 17A2 antibody recognizes ε/γ (but not ε/δ) of CD3 complex. The 17A2 antibody can induce T cell activation and has been reported to deplete CD3⁺ cells *in vivo*.

Antigen References:

1. Barclay, A., *et al.*, 1997. *The Leukocyte Antigen FactsBook*, Academic Press.
2. Davis, M.M. 1990. *Annu. Rev. Biochem.* 59:475.
3. Weiss, A. *et al.*, 1994. *Cell* 76:263.

Related Products:	Product	Clone	Application
	FITC anti-mouse CD8a	53-6.7	FC
	FITC anti-mouse CD8a	5H10-1	FC
	FITC anti-mouse CD4	GK1.5	FC
	FITC anti-mouse TCR β chain	H57-597	FC, IF, IHC
	FITC anti-mouse CD45R/B220	RA3-6B2	FC
	FITC anti-mouse CD4	RM4-5	FC
	FITC anti-mouse TCR γδ	UC7-13D5	FC
	Cell Staining Buffer (FBS)		FC, ICC, ICFC
	FITC anti-mouse CD19	6D5	FC
	FITC Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC
	FITC anti-mouse CD19	MB19-1	FC



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