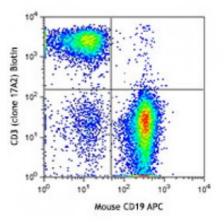
Product Data Sheet

Biotin anti-mouse CD3

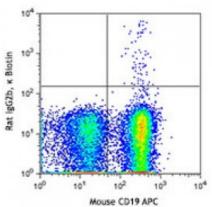
Catalog # / Size:	1101215 / 50 μg 1101220 / 500 μg
Clone:	17A2
Isotype:	Rat IgG2b, к
Immunogen:	$\gamma\delta TCR$ -positive T-T hybridoma D1
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



C57BL/6 splenocytes were stained with CD19 APC and biotinylated CD3 (clone 17A2) (top) or biotinylated rat lgG2b, κ isotype control (bottom), followed by SAV-PE.

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 ≤ 0.125 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
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Application Notes:	The 17A2 antibody recognizes ε/γ (but not ε/δ) of the CD3 complex. The 17A2 antibody can induce T cell activation and has been reported to deplete CD3 ⁺ cells <i>in vivo</i> . Additional reported applications (for the relevant formats) include: immunoprecipitation1,



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	complement-mediated cytotoxicity ^{1,3} , immunohistochemical staining of acetone-fixed frozen sections ^{1,4} , <i>in vitro</i> stimulation of T cells1 and depletion of CD3 ⁺ cells <i>in vivo</i> 2. The LEAF [™] purified antibody (Endotoxin <0.1 EU/µg, Azide- Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 100208). For <i>in vivo</i> studies or highly sensitive assays, we recommend Ultra-LEAF [™] purified antibody (Cat. No. 100238) with a lower endotoxin limit than standard LEAF [™] purified antibodies (Endotoxin <0.01 EU/microg).
Application References:	 Miescher GC, <i>et al.</i> 1989. <i>Immunol. Lett.</i> 23:113. (IP, IHC, Activ, CMCD) Mysliwietz J, <i>et al.</i> 1992. <i>Blood</i> 80:2661. (Deplete) Wu L, <i>et al.</i> 1991. <i>J. Exp. Med.</i> 174:1617. (CMCD) Zhang Y, <i>et al.</i> 2002. <i>J. Immunol.</i> 168:3088. (IHC) Zan H, <i>et al.</i> 2005. <i>EMBO J.</i> 24:3757. Morgado P, <i>et al.</i> 2011. <i>Infect Immun.</i> 79:4401. <u>PubMed</u> Xiao J, <i>et al.</i> 2012. <i>Arterioscler Thromb Vasc Biol.</i> 32:386. <u>PubMed</u> Lei F, <i>et al.</i> 2013. <i>J Vis Exp.</i> 60:3986. <u>PubMed.</u>
Description:	CD3, also known as T3, is a member of the Ig superfamily and primarily expressed

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 CD3 ϵ , 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.

Antigen	1. Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press.
References:	2. Davis MM. 1990. Annu. Rev. Biochem. 59:475.
	3. Weiss A, <i>et al.</i> 1994. <i>Cell</i> 76:263.