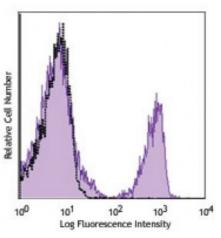
Product Data Sheet

APC anti-mouse CD3

Catalog # / Size:	1101175 / 25 μg 1101180 / 100 μg
Clone:	17A2
Isotype:	Rat IgG2b, к
Immunogen:	γδTCR-positive T-T hybridoma D1
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration :	0.2



C57BL/6 mouse splenocytes were stained with CD3 (clone 17A2) APC (filled histogram) or rat IgG2b, κ isotype control (open histogram).

Applications:

Flow Cytometry
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 ≤ 0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
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, 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 TM 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 TM purified antibody (Cat. No. 100238) with a lower endotoxin limit than standard LEAF TM purified antibodies (Endotoxin <0.01 EU/microg).
 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> Konnecke I, <i>et al.</i> 2014. <i>Bone.</i> <u>PubMed</u>

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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com 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.