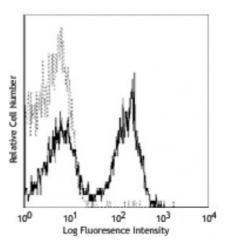
Product Data Sheet

Alexa Fluor[®] 488 anti-mouse CD3

Catalog # / Size:	1101050 / 100 μg 1101060 / 25 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 Alexa Fluor® 488 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



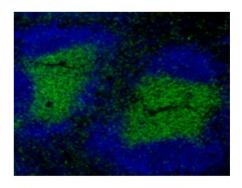
C57BL/6 mouse splenocytes stained with 17A2 Alexa Fluor® 488

Applications:

Applications: Immunofluorescence Recommended Each lot of this antibody is quality control tested by immunofluorescent Usage: staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 microg per million cells in 100 microL volume. For immunohistochemical staining on frozen tissue sections, the suggested use of this reagent is 5.0 - 10 microg per ml. It is recommended that the reagent be titrated for optimal performance for each application.

> * Alexa Fluor[®] 488 has a maximum emission of 519 nm when it is excited at 488 nm.

Application The 17A2 antibody recognizes ε/γ (but Notes: not ϵ/δ) of the CD3 complex. The 17A2 antibody can induce T cell activation and has been reported to deplete CD3⁺ cells in vivo. Additional reported applications (for the relevant formats) include: immunoprecipitation1, complement-mediated cytotoxicity^{1,3}, immunohistochemical staining of acetone-fixed frozen sections^{1,4}, *in vitro* stimulation of T cells1 and depletion of CD3⁺ cells *in vivo*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 in vivo studies or highly sensitive assays, we recommend Ultra-LEAF purified antibody (Cat. No. 100238) with



C57BL/6 mouse frozen spleen section was fixed with 4% paraformaldehyde (PFA) for 10 minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. Then, the section was stained with 10 microg/ml CD3 (Clone 17A2) Alexa Fluor®

	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. PubMed Xiao J, <i>et al.</i> 2012. <i>Arterioscler Thromb Vasc Biol.</i> 32:386. PubMed Wan W, <i>et al.</i> 2013. <i>Cardiovasc Res.</i> 97:580. PubMed Langhauser F, <i>et al.</i> 2014. <i>Stroke.</i> 45:1799. PubMed Datta S, <i>et al.</i> 2014. <i>J Leukoc Biol.</i> 95:853. PubMed Hanihara-Tatsuzaawa F, <i>et al.</i> 2014. <i>J Biol Chem.</i> 289:30925. PubMed Wan W, <i>et al.</i> 2015. <i>Cardiovasc Res.</i> 106:478. 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 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 References:	