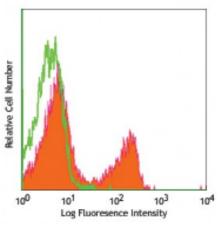
Product Data Sheet

FITC anti-mouse TCR β chain

Catalog # / Size:	1146025 / 50 μg 1146030 / 500 μg
Clone:	H57-597
Isotype:	Hamster lgG
Immunogen:	Affinity purified TCR from mouse DO- 11.10 cells
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



C57BL/6 mouse splenocytes stained with H57-597 FITC

Applications:

Applications:	Immunofluorescence
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 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	H57-597 is a hamster mAb directed to an epitope of the C region of TCR β chain ¹² . The H57-597 antibody does not cross-react with γ/δ TCR-bearing T cells. Immobilized or soluble H57-597 antibody can activate α/β TCR-bearing T cells. Additional reported applications (for the relevant formats) for this antibody include: immunoprecipitation2, <i>in vitro</i> stimulation ^{2,3} , <i>in vivo</i> depletion ⁴⁻⁶ , and immunohistochemical staining of acetone-fixed frozen sections ^{7,8,9} . The LEAF TM purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 109214).
Application References:	 Gascoigne NJ. 1990. <i>J. Biol. Chem.</i> 265:9296. Kruisbeek A, <i>et al.</i> 1991. <i>In Current Protocols in Immunology.</i> pp. 3.12.1. (Costim IP) Davenport C, <i>et al.</i> 1995. <i>J. Immunol.</i> 155:3742. (Costim) Drobyski W, <i>et al.</i> 1996. <i>Blood</i> 87:5355. (Deplete) Kummer U, <i>et al.</i> 2001. <i>Immunol. Lett.</i> 75:153. (Deplete) van der Heyde HC, <i>et al.</i> 1995. <i>J. Immunol.</i> 154:3985. (Deplete) romita K, <i>et al.</i> 1999. <i>Genes Dev.</i> 13:1203. (IHC) Podd BS, <i>et al.</i> 2006. <i>J. Immunol.</i> 176:6532. (IHC) Ponomarev ED, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:39. (IHC) Chappaz S, <i>et al.</i> 2007. <i>Blood</i> doi:10.1182/blood-2007-02-074245. (FC) PubMed Tsukumo S, <i>et al.</i> 2006. <i>J.Immunol.</i> 177:8365. (FC) PubMed Grégoire C, <i>et al.</i> 1991. <i>Proc. Natl. Acad. Sci USA</i> 88:8077.

Description: T cell receptor (TCR) is a heterodimer consisting of an α and a β chain (TCR α/β) or a γ and a δ chain (TCR γ/δ). TCR- β is a member of the immunoglobulin superfamily and a component of the CD3/TCR complex (along with TCR- α). It is

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 expressed on α/β TCR-bearing T cells and thymocytes. The CD3/TCR complex plays a key role in antigen recognition, signal transduction, and T cell activation.

Antigen	1. Davis MM, <i>et al.</i> 1998. <i>Ann. Rev. Immunol.</i> 16:523.
References:	2. Huppa JB, <i>et al.</i> 2003. <i>Nat. Immunol.</i> 4:749.
	3. Kubo R, <i>et al.</i> 1989. <i>J. Immunol.</i> 142:2736.