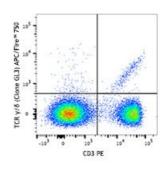
APC/Fire[™] 750 anti-mouse TCR γ/δ

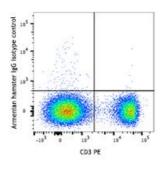
Catalog # / Size:	
Clone:	GL3
lsotype:	Hamster IgG
Immunogen:	C57BL/6J intraepithelial lymphocytes
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	750 under optimal conditions.
Concentration:	0.2 mg/ml



C57BL/6 mouse splenocytes were stained with CD3 PE and and TCR γ/δ (clone GL3) APC/Fire™ 750 (top) or Armenian hamster IgG APC/Fire™ 750 isotype control (bottom).

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 $\leq 0.25 \ \mu g$ per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.	
	* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.	C5 we (cl 75
Application Notes:	The GL3 antibody has been shown to be useful in identifying γ/δ T cells by flow cytometry and immunohistochemistry and depleting γ/δ T cells <i>in vivo</i> . Additional reported applications (for the relevant formats) include: immunoprecipitation ¹ , immunohistochemistry of acetone- fixed frozen sections ^{2,6} , and <i>in vivo</i> depletion of γ/δ T cells ³⁻⁵ .	lg(co



C57BL/6 mouse bone marrow cells were stained with CD150 (SLAM) (clone TC15-12F12.2) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

Application References:	 Goodman T, et al. 1989. J. Exp. Med. 170:1569. (FC, IP) Cardona AE, et al. 2003. Infect. Immun. 71:2634. (IHC) Kapp JA, et al. 2004. Immunology 111:155. (Deplete) Skelsey ME, et al. 2001. J. Immunol. 166:4327. (Deplete) Ke Y, et al. 1997. J. Immunol. 158:3610. (Deplete) Podd BS, et al. 2006. J. Immunol. 176:6532. (IHC) Kasten KR, et al. 2010. Infect. Immun. 78:4714. (FC) PubMed Stadanlick JE, et al. 2011. J. Immunol. 187:664. PubMed Van Belle AB, et al. 2012. J. Immunol. 188:462. PubMed
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 γ/δ belongs to the immunoglobulin superfamily, which is involved in the recognition of certain bacterial and tumor antigens bound to MHC class I. γ/δ TCR associates with CD3 and is expressed on a T cell subset found in the thymus, the intestinal epithelium, and the peripheral lymphoid tissues and peritoneum. Most γ/δ T cells are CD4 ⁻ /CD8 ⁻ although some are CD8 ⁺ . T cells expressing the γ/δ TCR have been shown to play a role in oral tolerance, tumor-associated tolerance, and autoimmune disease. It has been reported that γ/δ T cells also play a principal role in antigen presentation.
Antigen References:	 Skarstein K, et al. 1995. Immunology. 81:497. Harrison LC, et al. 1996. J Exp Med. 184:2167. Wildner G, et al. 1996. Eur J Immunol. 26:2140. Brandes M, et al. 2005. Science. 309:264.