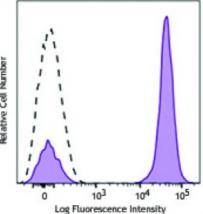
Product Data Sheet

Brilliant Violet 650[™] anti-human CD3

Catalog # / Size:	2102340 / 100 tests 2102335 / 25 tests		
Clone:	UCHT1	5	
Isotype:	Mouse lgG1, κ		
Reactivity:	Human	N 10	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 650 [™] and unconjugated antibody.	Relative Cell Number	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	Log Fluore Human peripher lymphocytes we	
Workshop Number:	III 471	(clone UCHT1) B (filled histogram Brilliant Violet 65 (open histogram	
Concentration:	Lot-specific		



Human peripheral blood ymphocytes were stained with CD3 (clone UCHT1) Brilliant Violet 650[™] (filled histogram) or mouse IgG1, κ Brilliant Violet 650[™] isotype control (open histogram).

Applications:

Applications: now eyeometry	ations: Flow Cytom	netry
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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 ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650[™] excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 650[™] is a trademark of Sirigen Group Ltd.

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Application Additional reported applications (for the relevant formats) include:

Notes: immunohistochemical staining of acetone-fixed frozen sections^{4,6,7} and formalin-fixed paraffin-embedded sections¹¹, immunoprecipitation1, activation of T cells^{2,3,5}, and Western blotting⁹. The LEAF[™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 300414). For highly sensitive assays, we recommend Ultra-LEAF[™] purified antibody (Cat. No. 300438) with a lower endotoxin limit than standard LEAF[™] purified antibodies (Endotoxin <0.01 EU/microg).</p>

Application 1. Salmeron A, et al. 1991. J. Immunol. 147:3047. (IP)

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References:	 Graves J, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:2102. (Activ) Lafont V, <i>et al.</i> 2000. <i>J. Biol. Chem.</i> 275:19282. (Activ) Ryschich E, <i>et al.</i> 2003. <i>Tissue Antigens</i> 62:48. (IHC) Thompson AG, <i>et al.</i> 2004. <i>J. Immunol.</i> 173:1671. (Activ) Sakkas LI, <i>et al.</i> 1998. <i>Clin. Diagn. Lab. Immun.</i> 5:430. (IHC) Mack CL, <i>et al.</i> 2004. <i>Pediatr. Res.</i> 56:79. (IHC) Thakral D, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:7431. (FC) PubMed Van Dongen JJM, <i>et al.</i> 1988. <i>Blood</i> 71:603. (WB) Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC) Pollard, K. <i>et al.</i> 1987. <i>J. Histochem. Cytochem.</i> 35:1329. (IHC) Luckashenak N, <i>et al.</i> 2013. <i>J. Immunol.</i> 190:27. PubMed Laurent AJ, <i>et al.</i> 2014. <i>PLoS One.</i> 9:103683. PubMed Li J, <i>et al.</i> 2015. <i>Cancer Res.</i> 75:508. PubMed
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Description:	CD3 ϵ is a 20 kD chain of the CD3/T-cell receptor (TCR) complex which is composed of two CD3 ϵ , one CD3 γ , one CD3 δ , one CD3 ζ (CD247), and a T-cell receptor (α/β or γ/δ) heterodimer. It is found on all mature T cells, NKT cells, and some thymocytes. CD3, also known as T3, is a member of the immunoglobulin superfamily that plays a role in antigen recognition, signal transduction, and T cell activation.
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Antigen	1. Barclay N, <i>et al.</i> 1993. The Leucocyte FactsBook. Academic Press. San Diego.
References:	2. Beverly P, <i>et al.</i> 1981. <i>Eur. J. Immunol.</i> 11:329.
	3. Lanier L, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:2501-2507.