## **Product Data Sheet**

## Brilliant Violet 605<sup>™</sup> anti-human CD3

Catalog # / Size:	2102295 / 25 tests 2102300 / 100 tests	Å
Clone:	UCHT1	
Isotype:	Mouse lgG1, к	ada
<b>Reactivity:</b>	Human	All Nur
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605 <sup>™</sup> under optimal conditions. The solution is free of unconjugated Brilliant Violet 605 <sup>™</sup> and unconjugated antibody.	Relative Ce
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	Log Fluoresc Human peripheral
Workshop Number:	III 471	(clone UCHT1) Bri (filled histogram)
<b>Concentration:</b>	0.2	Brilliant Violet 605 (open histogram)



blood ned with CD3 lliant Violet 605™ or mouse IgG1, κ 5<sup>™</sup> isotype control (open histogram).

## **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 $\leq$ 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 605 <sup>™</sup> excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. <b>Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.</b> Refer to your instrument manual or manufacturer for support. Brilliant Violet 605 <sup>™</sup> is a trademark of Sirigen Group Ltd.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections <sup>4,6,7</sup> and formalin- fixed paraffin-embedded sections <sup>11</sup> , immunoprecipitation1, activation of T cells <sup>2,3,5</sup> , and Western blotting <sup>9</sup> . The LEAF <sup>TM</sup> 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 <sup>TM</sup> purified antibody (Cat. No. 300438) with a lower endotoxin limit than standard LEAF <sup>TM</sup> purified antibodies (Endotoxin <0.01 EU/microg).
Application References:	<ol> <li>Salmeron A, <i>et al.</i> 1991. <i>J. Immunol.</i> 147:3047. (IP)</li> <li>Graves J, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:2102. (Activ)</li> <li>Lafont V, <i>et al.</i> 2000. <i>J. Biol. Chem.</i> 275:19282. (Activ)</li> <li>Ryschich E, <i>et al.</i> 2003. <i>Tissue Antigens</i> 62:48. (IHC)</li> <li>Thompson AG, <i>et al.</i> 2004. <i>J. Immunol.</i> 173:1671. (Activ)</li> <li>Sakkas LI, <i>et al.</i> 1998. <i>Clin. Diagn. Lab. Immun.</i> 5:430. (IHC)</li> <li>Mack CL, <i>et al.</i> 2004. <i>J. Immunol.</i> 180:7431. (FC)</li> <li>Thakral D, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:7431. (WB)</li> </ol>

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10. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC) 11. Pollard, K. *et al.* 1987. *J. Histochem. Cytochem.* 35:1329. (IHC) 12. Luckashenak N, *et al.* 2013. *J. Immunol.* 190:27. <u>PubMed</u> 13. Laurent AJ, *et al.* 2014. *PLoS One.* 9:103683. <u>PubMed</u>

<b>Description:</b> CD3 $\epsilon$ is a 20 kD chain of the CD3/T-cell receptor (TCR) composed of two CD3 $\epsilon$ , one CD3 $\gamma$ , one CD3 $\delta$ , one CD3 $\epsilon$ receptor ( $\alpha/\beta$ or $\gamma/\delta$ ) heterodimer. It is found on all main some thymocytes. CD3, also known as T3, is a member superfamily that plays a role in antigen recognition, signal cell activation.	complex which is δζ (CD247), and a T-cell ture T cells, NKT cells, and er of the immunoglobulin gnal transduction, and T
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Antigen	1. Barclay N, et al. 1993. The Leucocyte FactsBook. Academic Press. San Diego.
References:	2. Beverly P, et al. 1981. Eur. J. Immunol. 11:329.
	3. Lanier L, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:2501-2507.