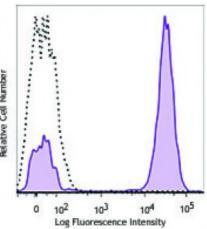
Product Data Sheet

PE/Dazzle[™] 594 anti-human CD3

Catalog # / Size:	2102245 / 25 tests 2102250 / 100 tests	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Clone:	UCHT1	
Isotype:	Mouse IgG1, κ	-ada
Reactivity:	Human	TR I
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle [™] 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle [™] 594 and unconjugated antibody.	Relative Co
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Human lympho
Workshop Number:	III 471	(clone (filled h
Concentration:	Lot-specific	PE/Dazz (open h



Human peripheral blood lymphocytes were stained with CD3 (clone UCHT1) PE/Dazzle[™] 594 (filled histogram) or mouse IgG1, ĸ PE/Dazzle[™] 594 isotype control (open histogram).

Applications:

Applications: Recommended Usage:	Flow Cytometry 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.
	* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections ^{4,6,7} and formalin- fixed paraffin-embedded sections ¹¹ , immunoprecipitation1, activation of T cells ^{2,3,5} , and Western blotting ⁹ . The LEAF ^{m} 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 ^{m} purified antibody (Cat. No. 300438) with a lower endotoxin limit than standard LEAF ^{m} purified antibodies (Endotoxin <0.01 EU/microg).
Application References:	 Salmeron A, <i>et al.</i> 1991. <i>J. Immunol.</i> 147:3047. (IP) 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>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)

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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.

Antigen	1. Barclay N, et al. 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, *et al.* 1986. *J. Immunol.* 137:2501-2507.