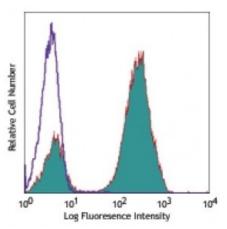
Product Data Sheet

Pacific Blue[™] anti-human CD3

Catalog # / Size:	2102210 / 500 tests 2102085 / 100 μg
	2102090 / 25 µg
	2102155 / 100 tests
Clone:	UCHT1
Isotype:	Mouse IgG1, к
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.
Formulation:	test size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA). microg sizes: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	III 471
Concentration:	test size: lot-specific; microg sizes: 0.5 mg/ml



Human peripheral blood lymphocytes stained with UCHT1 Pacific Blue™

Applications:

Recommended
Usage:Each lot of this antibody is quality control tested by immunofluorescent staining
with flow cytometric analysis.For test size, the suggested use of this reagent for immunofluorescent

staining is 5 microL per million cells or 5 microL per 100 microL of whole blood. For microg sizes, the suggested use of this reagent for immunofluorescent staining is ≤ 2.0 microg per 10^6 cells in 100 microL volume or 100 microL of whole blood.

It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue[™] has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue[™] conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

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

Notes: immunohistochemical staining of acetone-fixed frozen sections^{4,6,7} and formalinfixed 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).

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 Mock U, <i>et al.</i> 2015. <i>Nucleic Acids Res.</i> 43:5560 PubMed
Description:	CD3ɛ is a 20 kD chain of the CD3/T-cell receptor (TCR) complex which is

Description:	CD3E is a 20 kD chain of the CD3/1-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, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:2501-2507.