

Product Data Sheet

Purified anti-human CD3

Catalog # / Size: 300401 / 25 µg

300402 / 100 µg

Clone: UCHT1

Isotype: Mouse IgG1, κ

Workshop Number: III 471

Reactivity: Human, Cross-Reactivity: Chimpanzee

Preparation: The antibody was purified by affinity chromatography.

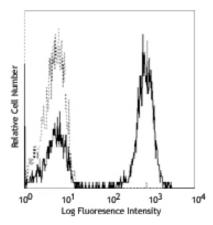
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - Quality tested IP, IHC, WB - Reported in the literature CyTOF® - Validated



Human peripheral blood lymphocytes stained with purified UCHT1 and then detected with anti-mouse IgGs FITC

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Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 μg per million cells in 100 μl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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 sections¹¹, immunoprecipitation¹, activation of T cells^{2,3,5}, and Western blotting⁹. The LEAFTM 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-LEAFTM purified antibody (Cat. No. 300438) with a lower endotoxin limit than standard LEAFTM purified antibodies (Endotoxin <0.01 EU/µg).

- Application References: 1. Salmeron A, et al. 1991. J. Immunol. 147:3047. (IP) 2. Graves J, et al. 1991. J. Immunol. 146:2102. (Activ) 3. Lafont V, et al. 2000. J. Biol. Chem. 275:19282. (Activ) 4. Ryschich E, et al. 2003. Tissue Antigens 62:48. (IHC) 5. Thompson AG, et al. 2004. J. Immunol. 173:1671. (Activ)
 6. Sakkas LI, et al. 1998. Clin. Diagn. Lab. Immunol. 5:430. (IHC)
 7. Mack CL, et al. 2004. Pediatr. Res. 56:79. (IHC) 7. Mack CL, et al. 2004. Pediatr. Res. 56:79. (IHC)
 8. Thakral D, et al. 2008. J. Immunol. 180:7431. (FC) PubMed
 9. Van Dongen JJM, et al. 1988. Blood 71:603. (WB)
 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. PubMed.

Description: CD3ε is a 20 kD chain of the CD3/T-cell receptor (TCR) complex which is composed of two CD3ε, one CD3γ, 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 lymphocytes, NK-T 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.

Clone

Antigen References: 1. Barclay N, et al. 1993. The Leucocyte FactsBook. Academic Press. San Diego. 2. Beverly P, et al. 1981. Eur. J. Immunol. 11:329. 3. Lanier L, et al. 1986. J. Immunol. 137:2501-2507.

Related Products: Product

uuci	s.Flouuci	Cione	Application
	Purified anti-human CD19	HIB19	FC, IHC, CyTOF®
	Purified anti-human CD3	HIT3a	FC, IHC, IP
	Purified anti-human CD8a	HIT8a	FC, IHC
	Purified anti-human CD4	RPA-T4	FC, IHC, CyTOF®
	Purified anti-human CD8a	RPA-T8	FC, IHC, CyTOF®
	Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, ICC, IF, IHC, IP, WB
	APC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
	Biotin Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC, ELISA, IHC, IF, WB
	HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELÍSA, IHĆ, WB
	PE Goat anti-mouse IgG (minimal x-reactivity)	Poľv4053	FC
	Cell Staining Buffer	•	FC, ICC, ICFC



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