

Product Data Sheet

PE anti-human CD3

Catalog # / Size: 300407 / 25 tests
300408 / 100 tests

Clone: UCHT1

Isotype: Mouse IgG1, κ

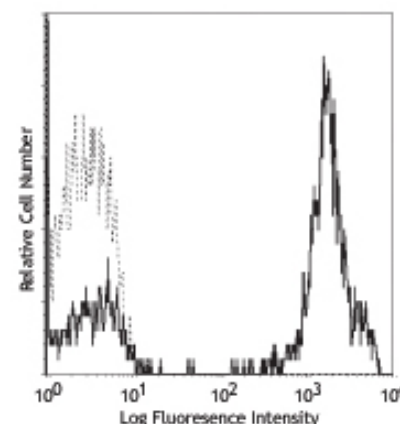
Workshop Number: III 471

Reactivity: Human, **Cross-Reactivity:** Chimpanzee

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with UCHT1 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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 LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m 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/ μ g).

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. Immun.* 5:430. (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)

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 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.

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
 PE anti-human CD19
 PE anti-human CD3
 PE anti-human CD8a
 PE anti-human CD4
 PE anti-human CD8a
 PE Mouse IgG1, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 HIB19
 HIT3a
 HIT8a
 RPA-T4
 RPA-T8
 MOPC-21

Application
 FC
 FC
 FC
 FC
 FC
 FC, ICFC
 FC, ICC, ICFC
 FC, ICFC
 FC, ICC, ICFC



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