Product Data Sheet

PE/Cy7 anti-human CD3

Catalog # / Size: 2102100 / 100 tests

2102095 / 25 tests

Clone: UCHT1

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7

and unconjugated antibody.

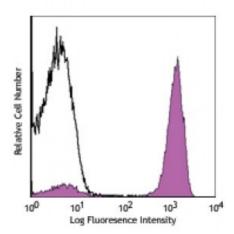
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

containing 0.09% sodium azide ai

0.2% (w/v) BSA (origin USA).

Workshop Number: III 471

Concentration: Lot-specific



Human peripheral blood lymphocytes stained with UCHT1 PE/Cy7 and overlayed with isotype

control

Applications:

Applications: Flow Cytometry

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 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. 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/ μ g, Azide-Free, 0.2 μ m 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/microg).

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)

12. Luckashenak N, et al. 2013. J. Immunol. 190:27. PubMed.

Description: CD3 ϵ is a 20 kD chain of the CD3/T-cell receptor (TCR) complex which is

composed of two CD3ε, one CD3γ, one CD3δ, one CD3ζ (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 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.