Product Data Sheet

FITC anti-human CD3

Catalog # / Size: 2102260 / 100 μg

2102025 / 25 tests

2102030 / 100 tests

2102200 / 500 tests

Clone: UCHT1

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

Formulation: microg size: Phosphate-buffered

solution, pH 7.2, containing 0.09%

sodium azide.

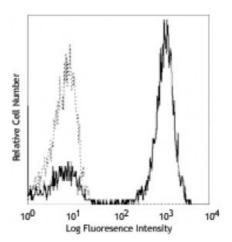
test sizes: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

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

Workshop Number: III 471

Concentration: microg sizes: 0.5 mg/ml

test sizes: lot-specific



Human peripheral blood lymphocytes stained with UCHT1

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining using the microg size, the suggested use of this reagent is ≤1.0 microg per million cells in 100 microL volume. **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:

References:

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 , immunoprecipitation 11 , activation of T cells 2,3,5 , and Western blotting 9 . The LEAF $^{\text{TM}}$ 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 $^{\text{TM}}$ purified antibody (Cat. No. 300438) with a lower endotoxin limit than standard LEAF $^{\text{TM}}$

Application 1. Salmeron A, et

1. Salmeron A, et al. 1991. J. Immunol. 147:3047. (IP) 2. Graves J, et al. 1991. J. Immunol. 146:2102. (Activ)

purified antibodies (Endotoxin < 0.01 EU/microg).

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
- 13. Nakastsugawa M, et al. 2015. J Immunol. 194:3487. PubMed

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 References:

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