Product Data Sheet

PE/Fire™ 640 anti-human CD3

Catalog # / 2324300 / 100 tests

Size: 2324295 / 25 tests

Clone: SK7

Isotype: Mouse IgG1, κ

Immunogen: Human T cells from a T-ALL patient.

Reactivity: Human, Other

Preparation: The antibody was purified by affinity

chromatography and conjugated with

PE/Fire™ 640 under optimal

conditions.

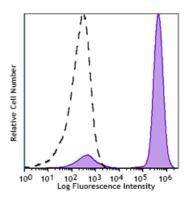
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

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

Workshop Number: **HCDM** listed

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 (clone SK7) PE/Fire™ 640 (filled histogram), or unstained control (open histogram).

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, the suggested use of this reagent is 5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for

each application.

* PE/Fire™ 640 has a maximum excitation of 566 nm and a maximum

emission of 639 nm.

Application Notes:

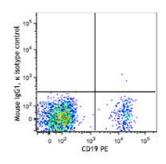
Additional reported application (for the relevant formats) include:

immunohistochemical staining of

frozen tissue sections^{4,5,8}, immunofluorescent staining⁶, and

... 3

Western blotting³.



Human peripheral blood lymphocytes were stained with anti-human CD4 FITC and antihuman CD25 (clone M-A251) Spark YG™ 581 (left) or antihuman CD4 FITC only (right).

Application References:

- 1. Kan EA, et al. 1983. J. Immunol. 131:536.
- 2. Wood GS, et al. 1985. Am. J. Pathol. 120:371.
- 3. Van Dongen JJM, et al. 1988. Blood 71:603. (WB)
- 4. Haringman JJ, et al. 2005. Arthritis Res. Ther. 7:R862. (IHC)
- 5. Carbone A, et al. 1999. Blood 93:2319. (IHC)
- 6. Goval JJ, et al. 2006. J. Histochem. Cytochem. 54:75. (IF)
- 7. Rutjens E, et al. 2007. J. Immunol. 178:1702.
- 8. Kap Y, et al. 2009. J. Histochem. Cytochem. 57:1159. (IHC)
- 9. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

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, 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.
- Beverly P, et al. 1981. Eur. J. Immunol. 11:329.
 Lanier L, et al. 1986. J. Immunol. 137:2501.