Product Data Sheet

Brilliant Violet 750™ anti-human CD3

Catalog # / 2324230 / 100 tests

Size: 2324225 / 25 tests

Clone: SK7

Isotype: Mouse IgG1, κ Immunogen: KG1a cell line

Reactivity: Human, Non-human primate

Preparation: The antibody was purified by affinity

chromatography and conjugated with Brilliant Violet 750™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 750™

and unconjugated antibody.

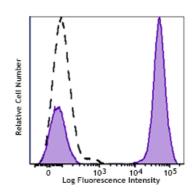
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

BSA (origin USA).

Workshop Number: **HCDM** listed

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 (clone SK7) Brilliant Violet 750™ (filled histogram) or mouse IgG1, κ Brilliant Violet 750™ isotype 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 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 750^{TM} excites at 405 nm and emits at 750 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 750^{TM} is a trademark of Sirigen Group Ltd.

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Application Notes:

Additional reported application (for the relevant formats) include: immunohistochemical staining of frozen tissue sections^{4,5,8}, immunofluorescent staining⁶, and Western blotting³.

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 JM, 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.