

Brilliant Violet 711™ anti-human CD3

Catalog # / Size: 2324190 / 100 tests
2324185 / 25 tests

Clone: SK7

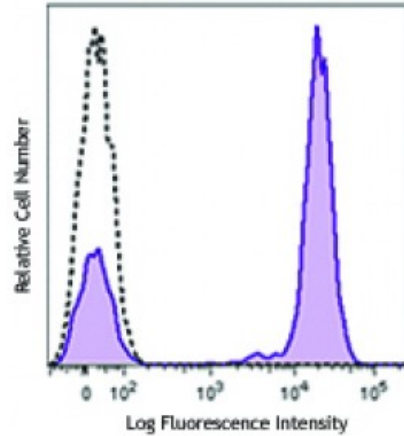
Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ and unconjugated antibody.

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

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 (clone SK7) Brilliant Violet 711™ (filled histogram) or mouse IgG1, κ Brilliant Violet 711™ 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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ 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 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)
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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.
2. Beverly P, *et al.* 1981. *Eur. J. Immunol.* 11:329.
3. Lanier L, *et al.* 1986. *J. Immunol.* 137:2501.