SONY

Product Data Sheet

Spark Blue™ 550 anti-mouse TER-119/Erythroid Cells

Catalog # / Size: 1181310 / 100 µg
1181305 / 25 µg

Clone: TER-119

Isotype: Rat IgG2b, κ

Immunogen: Day-14 fetal liver cells from a C57BL/6 mouse

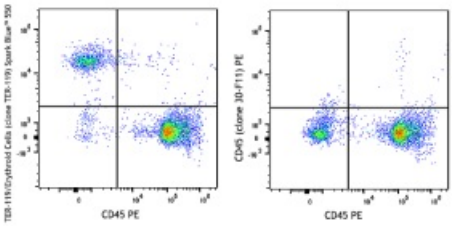
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Spark Blue™ 550 under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.5



C57BL/6 mouse bone marrow cells stained with CD45 PE and Ter-119/Erythroid Cells (clone Ter-119) Spark Blue™ 550 (left) or CD45 (clone 30-F11) PE (right).

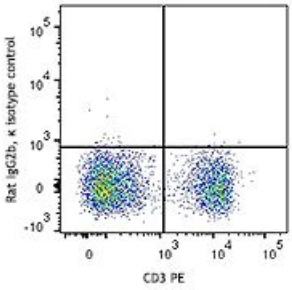
Applications:

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 ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Spark Blue™ 550 has a maximum excitation of 516 nm and a maximum emission of 540 nm.

Application Notes: The TER-119 antibody is useful for distinguishing erythrocytes and cells in the erythroid lineage. Additional reported applications (for the relevant formats) include: immunoprecipitation[1], Western blotting[1], complement-mediated cytotoxicity[3], and immunohistochemical staining of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections. Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 116253-116258).



C57BL/6 mouse bone marrow cells were stained with CD150 (SLAM) (clone TC15-12F12.2) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

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Application References:

1. Kina T, *et al.* 2000. *Br. J. Haematol.* 109:280. (IP, WB)
2. Vannucchi AM, *et al.* 2000. *Blood* 95:2559.
3. Maraskovsky E, *et al.* 1996. *J. Exp. Med.* 184:1953. (CMCD)
4. Grisendi S, *et al.* 2005. *Nature* 437:147. (FC)
5. Bourdeau A, *et al.* 2007. *Blood* 109:4220.
6. Chappaz S, *et al.* 2007. *Blood* 110:3862. (FC)
7. Heuser M, *et al.* 2007. *Blood* 110:1639. (FC)
8. Gough SM, *et al.* 2014. *Cancer Discov.* 4:564. PubMed

Description: The TER-119 antigen is a 52 kD glycophorin A-associated protein, also known as Ly-76. TER-119 is an erythroid-specific antigen expressed on early proerythroblasts to mature erythrocytes, but not on erythroid colony-forming cells (BFU-E, blast-forming unit erythroid, or CFU-E, colony-forming unit erythroid).

Antigen References:

1. Kina T, *et al.* 2000. *Br. J. Haematol.* 109:280.
2. Ikuta K, *et al.* 1990. *Cell* 62:863.
3. Osawa M, *et al.* 1996. *Weir's Handbook of Experimental Immunology.* Vol. 2 pp. 66.1-66.5.

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