

**Brilliant Violet 421™ anti-mouse TER-119/Erythroid Cells**

**Catalog # / Size:** 1181165 / 125 µl  
1181170 / 50 µg

**Clone:** TER-119

**Isotype:** Rat IgG2b, κ

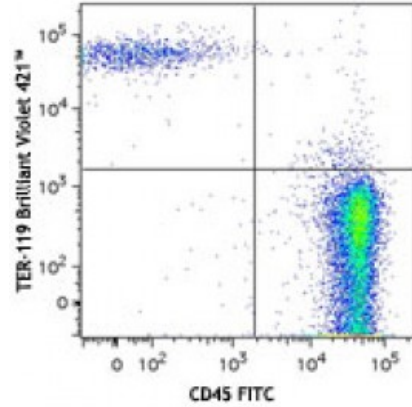
**Immunogen:** Day-14 fetal liver cells from a C57BL/6 mouse

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

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

**Concentration:** microg sizes: 0.2 mg/ml  
microL sizes: lot-specific

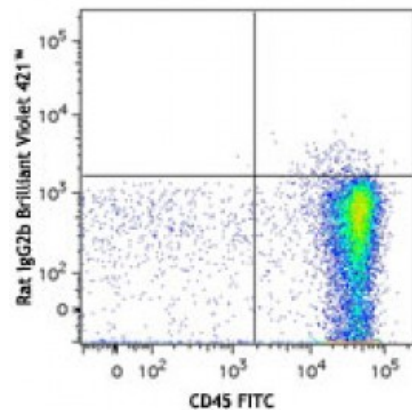


C57BL/6 splenocytes mixed with red blood cells were stained with CD45 FITC and TER-119 Brilliant Violet 421™ (top) or rat IgG2b Brilliant Violet 421™ isotype control (bottom).

**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 ≤0.125 microg per million cells in 100 microL volume. For flow cytometric staining using the microL size, 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 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

**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<sup>1</sup>, Western blotting<sup>1</sup>, complement-mediated cytotoxicity<sup>3</sup>, and immunohistochemical staining of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections. LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 116214).

**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)

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**Description:** The TER-119 antigen is a 52 kD glycoporphin 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.