

**Brilliant Violet 421™ anti-mouse CD71**

**Catalog # / Size:** 1169065 / 125 µl

**Clone:** RI7217

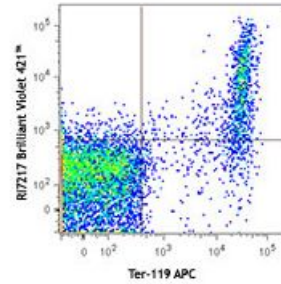
**Isotype:** Rat IgG2a, κ

**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:** Lot-specific

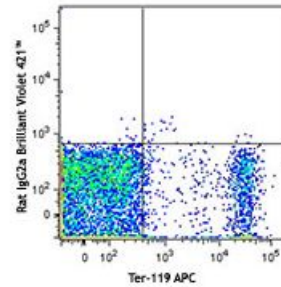


C57BL/6 mouse bone marrow cells were stained with Ter-119 APC and CD71 (clone RI7217) Brilliant Violet 421™ (top) or rat IgG2a (clone RTK2758) Brilliant Violet 421™ isotype control (bottom).

**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, 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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**Application Notes:** Additional reported applications (for the relevant formats) include: blocking of cellular proliferation. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 113810).

This clone may also be known as R17217 or R17 217.

**Application References:**

1. Trowbridge I, *et al.* 1982. *J. Cell. Physiol.* 112:403.
2. Grisendi S, *et al.* 2005. *Nature* 437:147.
3. van Rooy I, *et al.* 2010. *J. Control Release* 150:30. [PubMed](#)
4. Willhelm BT, *et al.* 2011. *Blood* 117:27. [PubMed](#)
5. Okasi Y, *et al.* 2012. *Exp Hematol.* 40:143 [PubMed](#)
6. Stojanov K, *et al.* 2012. *Mol Pharm.* 9:1620. [PubMed](#)

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**Description:** CD71 is a 95 kD type II heterodimeric transmembrane glycoprotein that is also known as T9 and transferrin receptor. CD71 is expressed on proliferating cells, reticulocytes, and erythroid precursors. Its expression is very low on resting leukocytes. CD71 plays a role in the control of cellular proliferation by facilitating the uptake of iron via ferrotransferrin binding and the recycling of apotransferrin to the cell surface.

**Antigen References:**

1. Hentze MW, *et al.* 1996. *P. Natl. Acad. Sci. USA* 93:8175.
2. Trowbridge IS, *et al.* 1993. *Annu. Rev. Cell Biol.* 9:129.
3. Trowbridge I, *et al.* 1982. *J. Cell Physiol.* 112:403.
4. K