

# Brilliant Violet 510™ anti-mouse CD71

**Catalog # / Size:** 1169115 / 50 µg

**Clone:** RI7217

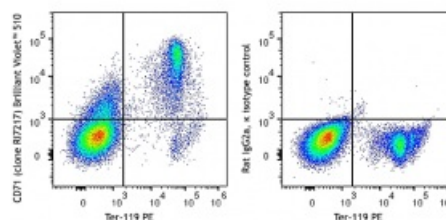
**Isotype:** Rat IgG2a, κ

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

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

**Concentration:** 0.2 mg/ml



C57BL/6 mouse bone marrow cells were stained with Ter-119 PE and CD71 (clone RI7217) Brilliant Violet™ 510 (left) or rat IgG2a

## 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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 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 510™ 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.

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

**Application 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. Kuhn LC, *et al.* 1984. *Cell* 37:95.

**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. Kuhn LC, *et al.* 1984. *Cell* 37:95.