SONY

Product Data Sheet

PE/Cyanine7 anti-mouse CD71

Catalog # / Size: 1169060 / 100 µg
1169055 / 25 µg

Clone: RI7217

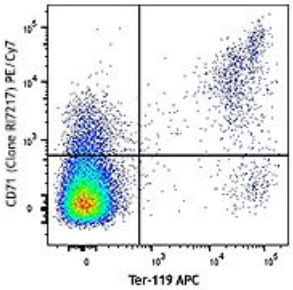
Isotype: Rat IgG2a, κ

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions.

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

Concentration: 0.2

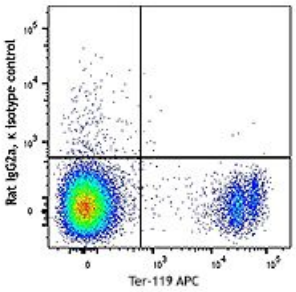


C57BL/6 mouse bone marrow cells were stained with Ter-119 APC and CD71 (clone RI7217) PE/Cy7 (top) or rat IgG2a, κPE/Cy7 isotype control (bottom). Data shown was gated on total bone marrow cells.

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 10^6 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



C57BL/6 splenocytes stained with rat IgG2a PE/Cy7 isotype and TER-119 APC

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.* 40:143PubMed
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. Kuhn LC, *et al.* 1984. *Cell* 37:95.

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