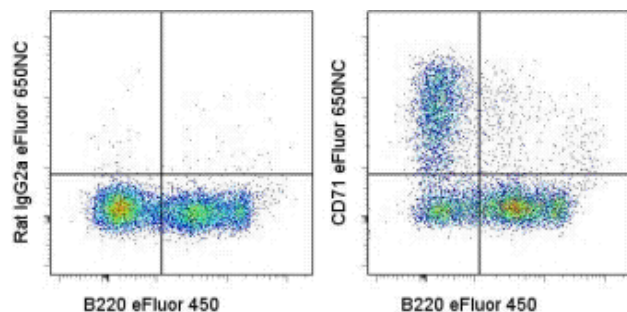


## Anti-Mouse CD71 (Transferrin Receptor) eFluor® 650NC

**Catalog Number:** 95-0711

**Also Known As:** TFRC

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of BALB/c bone marrow cells with Anti-Human/Mouse CD45R (B220) eFluor® 450 (cat. 48-0452) and Rat IgG2a K Isotype Control eFluor® 650NC (cat. 95-4321) (left) or Anti-Mouse CD71 (Transferrin Receptor) eFluor® 650NC (right). Cells in the small scatter population were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD71 (Transferrin Receptor) eFluor® 650NC

**REF** **Catalog Number:** 95-0711

**Clone:** R17217 (RI7 217.1.4)

**Concentration:** 5 uL

**Host/Isotype:** Rat IgG2a, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Light sensitive material. This product is guaranteed for 6 months upon receipt when stored properly.

**LOT** **Batch Code:** Refer to Vial

**Use By:** Refer to Vial

**Contains sodium azide**

### Description

The R17217 monoclonal antibody reacts with mouse CD71, a 170-180 kDa type II transmembrane protein. CD71, the transferrin receptor, exists as a homodimer on the cell surface and is essential for cellular growth. CD71 is expressed by immature proliferating cells and at low levels on resting mature lymphocytes. Antigen or mitogen stimulation of T and B cells upregulates the expression of CD71. Expression level differences have been observed in different mouse strains.

### Applications Reported

This R17217 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This R17217 (RI7 217.1.4) antibody has been pre-titrated and tested by flow cytometric analysis of mouse bone marrow cells. This can be used at 5 µL per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

The isotype control eFluor® 650NC rat IgG2a (cat. 95-4321) should be used at 5 uL/test.

**Laser/Filter Recommendation:** When using eFluor 650NC, we recommend excitation with the 405nm violet laser with an appropriate filter set, such as the 630 LP dichroic mirror with the 660/40 bandpass filter. The eFluor 650NC can be minimally excited off of the 633 nm laser, and because its peak emission is 650nm, it will require some compensation out of the APC detector.

**Fixation Recommendation:** When fixing samples that have been stained with nanocrystal reagents, we recommend keeping the total volume at approximately 200 uL. (100 uL cells + 100 uL IC Fixation Buffer (cat. 00-8222)) and the exposure time at 30-60 minutes to preserve the optimal fluorescent signal from the nanocrystal reagent.

For answers about fixation and other questions, please refer to Nanocrystal Frequently Asked Questions or contact eBioscience Technical Support.

### References

Lesley J, Hyman R, Schulte R, Trotter J. Expression of transferrin receptor on murine hematopoietic progenitors. Cell Immunol. 1984 Jan;83 (1):14-25.

### Related Products

00-4222 Flow Cytometry Staining Buffer

48-0452 Anti-Human/Mouse CD45R (B220) eFluor® 450 (RA3-6B2)  
95-4321 Rat IgG2a K Isotype Control eFluor® 650NC (eBR2a)

**Legal**

Under patent number: US 7,939,170 and additional pending patent application(s)

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