

CD71 (Transferrin Receptor) Monoclonal Antibody (R17217 (RI7 217.1.4)), Super Bright™ 645, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	R17217 (RI7 217.1.4)
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2735022

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	6 Publications

Product Specific Information

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

Applications Tested: This R17217 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.25 µg 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

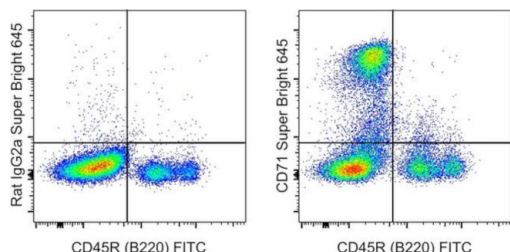
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 645 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD71 (Transferrin Receptor) Monoclonal Antibody (R17217 (RI7 217.1.4)), Super Bright™ 645, eBioscience™



CD71 (Transferrin Receptor) Antibody (64-0711-82) in Flow

C57BL/6 mouse bone marrow cells were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.125 μ g of Rat IgG2a kappa Isotype Control, Super Bright 645 (Product # 64-4321-82) (left) or 0.125 μ g of CD71 Monoclonal Antibody, Super Bright 645 (right). Cells in the lymphocyte gate were used for analysis.

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6 References

Flow Cytometry (6)

PloS one

Engineered red blood cells carrying PCSK9 inhibitors persistently lower LDL and prevent obesity.

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 64-0711-82) in Flow Cytometry"

Authors: Deshycka R, Sudaryo V, Huang NJ, Xie Y, Smeding LY, Choi MK, Ploegh HL, Lodish HF, Pishesha N

Year
2021

Nucleic acids research

NSMF promotes the replication stress-induced DNA damage response for genome maintenance.

"Published figure using CD71 (Transferrin Receptor) monoclonal antibody (Product # 64-0711-82) in Flow Cytometry"

Authors: Ju MK, Shin KJ, Lee JR, Khim KW, A Lee E, Ra JS, Kim BG, Jo HS, Yoon JH, Kim TM, Myung K, Choi JH, Kim H, Chae YC

Year
2021

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