

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotope	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	R17217 (RI7 217.1.4)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_467333

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	24 Publications
Functional Assay (FN)	Assay-Dependent	-
Immunohistochemistry (IHC)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

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. R17217 has also been reported in functional studies. (Please use Functional Grade purified R17217, cat. 16-0711, in functional assays.)

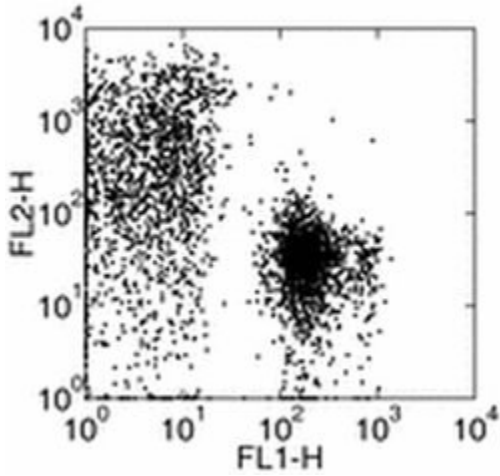
Applications Tested: The R17217 antibody has been tested by flow cytometric analysis of mouse splenocytes and bone marrow cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD71 (Transferrin Receptor) Antibody (14-0711-82) in Flow

Surface staining of mouse bone marrow with Anti-Mouse CD71 PE (Product # 12-0711-82) and Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82). Cells in the lymphoid population were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

26 References

Flow Cytometry (24)

Science advances

Discrete roles and bifurcation of PTEN signaling and mTORC1-mediated anabolic metabolism underlie IL-7-driven B lymphopoiesis.

"14-0711 was used in Flow cytometry/Cell sorting to determine the mechanism by which interleukin-7 in early B lymphopoiesis and the role of Stat5-dependent and independent pathways in this process."

Authors: Zeng H, Yu M, Tan H, Li Y, Su W, Shi H, Dhungana Y, Guy C, Neale G, Cloer C, Peng J, Wang D, Chi H

Species
Mouse

Dilution
Not Cited

Year
2018

Journal of cellular physiology

LCN2 overexpression in bone enhances the hematopoietic compartment via modulation of the bone marrow microenvironment.

"14071182 was used in flow cytometry to examine the function of lipocalin-2 in bone tissue"

Authors: Costa D, Principi E, Lazzarini E, Descalzi F, Cancedda R, Castagnola P, Tavella S

Species
Mouse

Dilution
Not Cited

Year
2017

[View more Flow references on thermofisher.com](#)

Immunohistochemistry (1)

Nature communications

Tbx3-dependent amplifying stem cell progeny drives interfollicular epidermal expansion during pregnancy and regeneration.

"14-0711 was used in Immunohistochemistry to elucidate the interfollicular epidermal stem cell/progeny organisation during pregnancy and suggest its application in regenerative medicine."

Authors: Ichijo R, Kobayashi H, Yoneda S, Iizuka Y, Kubo H, Matsumura S, Kitano S, Miyachi H, Honda T, Toyoshima F

Species
Mouse

Dilution
1:100

Year
2017

Miscellaneous PubMed (1)

Stem cells translational medicine

Microfluidic Isolation of CD34-Positive Skin Cells Enables Regeneration of Hair and Sebaceous Glands In Vivo.

"14-0711 was used in Binding experiments to observe the generation of significant levels of hair follicles and sebaceous glands by transplantation of isolated CD34+ cells."

Authors: Zhu B, Nahmias Y, Yarmush ML, Murthy SK

Species
Mouse

Dilution
Not Cited

Year
2014

More applications with references on thermofisher.com

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