

## Product Information

Contents: Functional Grade Purified anti-mouse CD71 (Transferrin Receptor)

Catalog Number: 16-0711

Sizes: 50 ug, 100 ug, 500 ug

Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, No NaN<sub>3</sub>

Storage Conditions: Store at 4°C.

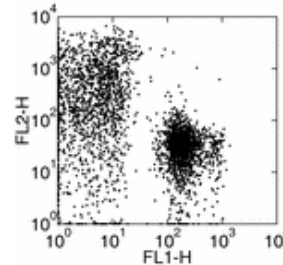
Avoid repeated freeze/thaw cycles.

KEEP CONTENT STERILE.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Clone: R17217

Isotype: Rat IgG2a, κ



*Two-color surface staining of mouse bone marrow with anti-mouse CD71 (R17217) PE and anti-mouse CD45R/B220 (RA3-6B2) FITC. Cells in the lymphoid population were used for analysis.*

### Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0711	FITC anti-mouse CD71 (Transferrin Receptor)	488	518	FC
12-0711	PE anti-mouse CD71 (Transferrin Receptor)	488	575	FC
13-0711	Coming Soon! - Biotin anti-mouse CD71 (Transferrin Receptor)	N/A	N/A	FC
14-0711	Affinity Purified anti-mouse CD71 (Transferrin Receptor)	N/A	N/A	FA FC
16-0711	Functional Grade* Purified anti-mouse CD71 (Transferrin Receptor)	N/A	N/A	FC

\*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.  
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

### 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.

### Usage

For research use only, not for diagnostic or therapeutic use. The R17217 antibody has been reported for use in flow cytometric analysis. R17217 has also been reported in functional studies.

### Applications Tested

The R17217 antibody has been tested by flow cytometric analysis of mouse splenocyte and bone marrow suspensions. This can be used at less than or equal to 0.5 μg per million cells in a 100 μl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### Related Products

Cat. 11-0711	FITC anti-mouse CD71 (Transferrin Receptor) (clone R17217)
Cat. 12-0711	PE anti-mouse CD71 (Transferrin Receptor) (clone R17217)
Cat. 14-0711	Affinity Purified anti-mouse CD71 (Transferrin Receptor) (clone R17217)
Cat. 11-4317	Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317	Streptavidin-PE (Phycoerythrin)
Cat. 17-4317	Streptavidin Allophycocyanin (SA-APC)

Cat. 16-4321 Functional Grade Purified Rat IgG2a Isotype Control  
Cat. 11-4811 FITC Anti-Rat IgG  
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

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#### References

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Lesley, J., R. Hyman, et al. (1984). "Expression of transferrin receptor on murine hematopoietic progenitors." Cell Immunol 83(1): 14-25.

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