

Rabbit anti-Mouse Transferrin receptor Monoclonal Antibody

Anti-Transferrin receptor [R17 217.1.3]

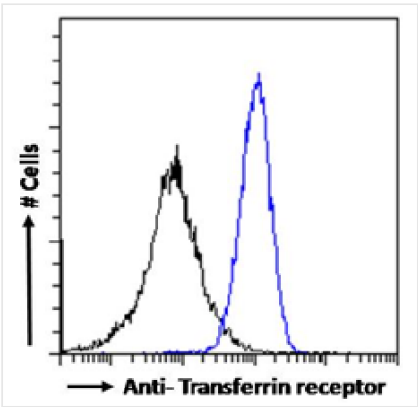
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72115	Rabbit	Mouse	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

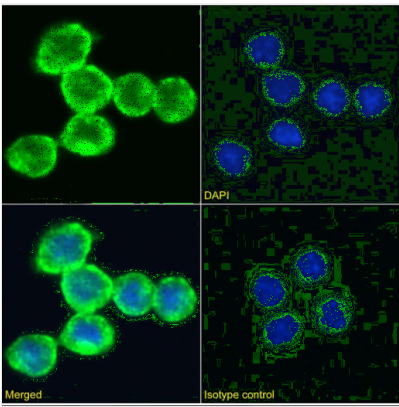
Transferrin receptor; Monoclonal Antibody; Anti-Transferrin receptor [R17 217.1.3]; CD71; Transferrin receptor protein 1; TR; ; TfR1; Trfr; anti-Transferrin receptor antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	R17 217.1.3
Specificity	The transferrin receptor is necessary for cellular iron uptake by the process of receptor-mediated endocytosis. Mice that are deficient in this receptor show impaired erythroid development and abnormal iron homeostasis.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Transferrin receptor antibody	FCM/FACS (Flow Cytometry)
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.
PMID	6319033
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow-cytometry using the Anti-Transferrin receptor antibody R17 217.1.3 (AAA72115). RAW 264.7 cells were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, black line) or the rabbit IgG version of R17 217.1.3 (, blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of RAW 264.7 cells using anti-Transferrin receptor antibody (AAA72115) R17 217.1.3. Immunofluorescence analysis of paraformaldehyde fixed RAW 264.7 cells stained with the chimeric rabbit IgG version of R17 217.1.3 () at 10ug/ml followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom , DAPI, merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-Transferrin receptor antibody	Recombinant monoclonal antibody to Transferrin receptor. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma R17 217.1.3. The antibody was obtained from a fusion of the murine myeloma S 194/5.XXO.BU. 1 with spleen cells from a BDIX rat immunized with the Friend erythroleukemia 745.6.
Product Categories/Family for anti-Transferrin receptor antibody	deplete; homeostasis; endocytosis
References	Lesley et al, 1984. Expression of transferrin receptor on murine hematopoietic progenitors. Cell Immunol. 1984 Jan;83(1):14-25. Note on publication: Describes the original generation of the antibody and its application to flow cytometry.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	Q62351
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/transferrin-receptor-antibody-clone-r17-217-1-3-flow-cytometry-elisa/72115>