

## ARG20944 anti-CD71 / Transferrin Receptor antibody [RI7217] (Biotin)

Package: 100 µg  
Store at: 4°C

### Summary

Product Description	Biotin-conjugated Rat Monoclonal antibody [RI7217] recognizes CD71 / Transferrin Receptor
Tested Reactivity	Ms
Tested Application	BL, FACS, ICC/IF, WB
Specificity	Mouse CD71. The clone RI7217 inhibits cell proliferation in vitro.
Host	Rat
Clonality	Monoclonal
Clone	RI7217
Isotype	IgG2a, kappa
Target Name	CD71 / Transferrin Receptor
Species	Mouse
Immunogen	DMSO induced Friend erythroleukemia 745.6
Conjugation	Biotin
Alternate Names	TFR1; CD antigen CD71; CD71; T9; p90; TR; Trfr; Transferrin receptor protein 1; TRFR; sTfR; TfR1; TfR; TFR

### Application Instructions

Application table	Application	Dilution
	BL	Assay-dependent
	FACS	< 1 µg/10 <sup>6</sup> cells
	ICC/IF	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

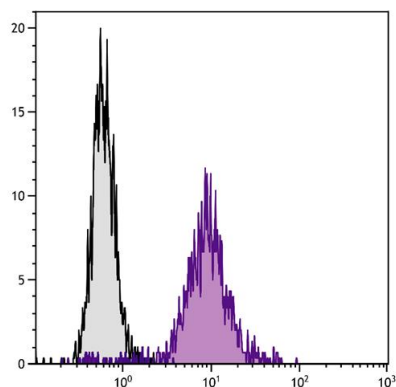
### Properties

Form	Liquid
Buffer	PBS and 0.1% Sodium azide.
Preservative	0.1% Sodium azide
Concentration	0.5 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

## Bioinformation

Database links	<a href="#">GeneID: 22042 Mouse</a> <a href="#">Swiss-port # Q62351 Mouse</a>
Gene Symbol	TFRC
Gene Full Name	transferrin receptor
Background	This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015]
Function	Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system (By similarity). A second ligand, the hereditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site. [UniProt]
Calculated Mw	85 kDa
PTM	N- and O-glycosylated, phosphorylated and palmitoylated. The serum form is only glycosylated. Proteolytically cleaved on Arg-100 to produce the soluble serum form (sTfR). Palmitoylated on both Cys-62 and Cys-67. Cys-62 seems to be the major site of palmitoylation.

## Images



ARG20944 anti-CD71 / Transferrin Receptor antibody [RI7217] (Biotin) FACS image

Flow Cytometry: Mouse pre-B cell line 18-81 was stained with ARG20944 anti-CD71 / Transferrin Receptor antibody [RI7217] (Biotin) followed by Streptavidin (FITC).