

## ARG41865 anti-CD71 / Transferrin Receptor antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes CD71 / Transferrin Receptor
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CD71 / Transferrin Receptor
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-140 of Human CD71 / Transferrin Receptor. (NP_001121620.1)
Conjugation	Un-conjugated
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
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse liver	
Observed Size	~ 100 kDa	

### Properties

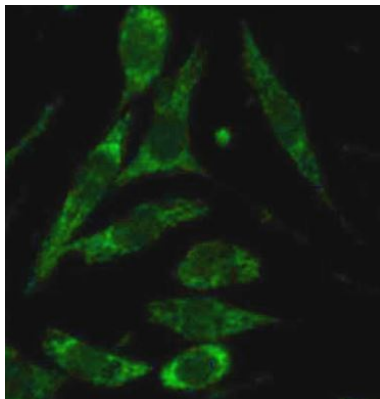
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

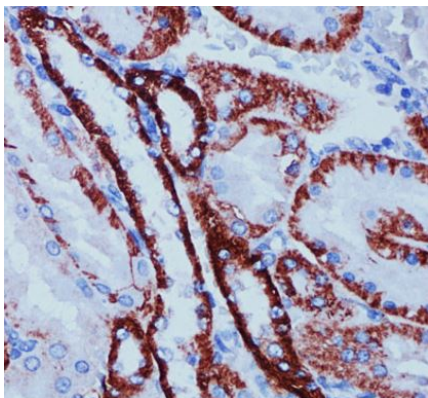
Gene Symbol	TFRC
Gene Full Name	transferrin receptor
Background	This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants 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. [UniProt]
Cellular Localization	Cell membrane; Single-pass type II membrane protein. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Transferrin receptor protein 1, serum form: Secreted. [UniProt]

## Images



ARG41865 anti-CD71 / Transferrin Receptor antibody ICC/IF image

Immunofluorescence: L929 cells stained with ARG41865 anti-CD71 / Transferrin Receptor antibody at 1:100 dilution.

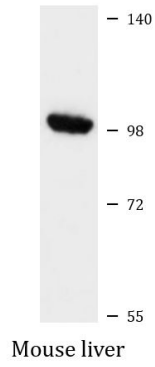


ARG41865 anti-CD71 / Transferrin Receptor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat kidney tissue stained with ARG41865 anti-CD71 / Transferrin Receptor antibody 1:100 dilution.

ARG41865 anti-CD71 / Transferrin Receptor antibody WB image

Western blot: 25 µg of Mouse liver lysate stained with ARG41865 anti-CD71 / Transferrin Receptor antibody at 1:3000 dilution.



ARG41865 anti-CD71 / Transferrin Receptor antibody IP image

Immunoprecipitation: 200 µg extracts of Jurkat cells were immunoprecipitated and stained with ARG41865 anti-CD71 / Transferrin Receptor antibody at 1:1000 dilution.

