

Transferrin Receptor (ANT0060R) Rabbit mAb

CatalogNo: ANT8213 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse,Rat,

Reactivity

- WB,IHC,IF,IP,ELISA

Applications

MW

- 84kD (Calculated)
 - IgG,Kappa
- 84kD (Observed)

Isotype

Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality Monoclonal

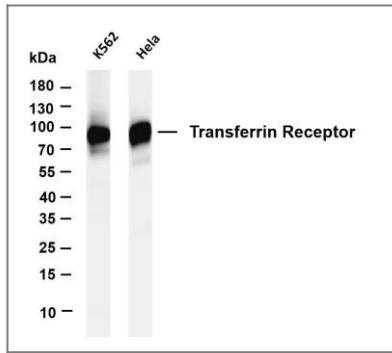
Clone Number ANT0060R

Target Information

Endogenous

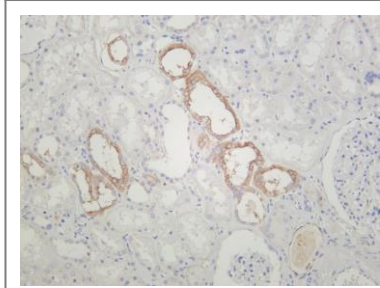
Gene name	TFRC		
Protein Name	Transferrin receptor protein 1 (TR) (TfR) (TfR1) (Trfr) (T9) (p90) (CD antigen CD71) [Cleaved into: Transferrin receptor protein 1, serum form (sTfR)]		
	Organism	Gene ID	UniProt ID
	Human	7037;	P02786;
	Mouse	22042;	Q62351;
	Rat		Q99376;
Cellular Localization	Membrane		
Function	<p>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 heditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site. Positively regulates T and B cell proliferation through iron uptake . Acts as a lipid sensor that regulates mitochondrial fusion by regulating activation of the JNK pathway . When dietary levels of stearate (C18:0) are low, promotes activation of the JNK pathway, resulting in HUWE1mediated ubiquitination and subsequent degradation of the mitofusin MFN2 and inhibition of mitochondrial fusion . When dietary levels of stearate (C18:0) are high, TFRC stearylation inhibits activation of the JNK pathway and thus degradation of the mitofusin MFN2 . ; (Microbial infection) Acts as a receptor for new-world arenaviruses: Guanarito, Junin and Machupo virus.</p>		

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Transferrin Receptor (ANT0060R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Lane 2: HeLa Predicted band size: 84kDa
Observed band size: 84kDa

Human kidney was stained with anti-Transferrin Receptor (ANT0060R) rabbit antibody



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