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Mouse Monoclonal Antibody Transferrin Receptor conjugated to Sepharose Beads

CatalogNo: ANT8213-M

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

Transferrin Receptor (ANT0060R) Rabbit mAb

Formulation: Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg ANaN3.

Host Species Reactivity Applications

Rabbit Human, Mouse, Rat, WB, IHC, IF, IP, ELISA

MW Isotype

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

Recommended Dilution Ratios

IP

Basic Information

Clonality	Monoclonal	
Clone Number	ANTO060R	

Immunogen Information

Specificity 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)]

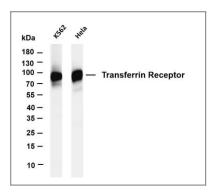
Organism	Gene ID	UniProt ID
Human	<u>7037</u> ;	<u>P02786</u> ;
Mouse	<u>22042</u> ;	<u>Q62351</u> ;
Rat		<u>Q99376</u> ;

Cellular Localization Membrane

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 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 stearoylation 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.

Validation Data

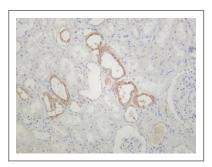


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Transferrin Receptor (ANT0060R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect

the antibody. Lane 1: K562 Lane 2: Hela Predicted band size: 84kDa

Observed band size: 84kDa





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Contact Antagene Inc Tel 1-866-964-2589 Email: info@antageneinc.com