10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Polyclonal Antibody to Transferrin Receptor (TFR)

Transferrin Receptor
Catalog # AP74748

Product Information

Application	WB
Primary Accession	Q2V905
Reactivity	Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	85517

Additional Information

Gene ID	100034089
Other Names	CD71; TFR1; P90; TFRC; T9; Trfr; sTfR; Transferrin receptor protein 1, serum form
Target/Specificity	Equus caballus; Equine (Horse)
Dilution	WB~~Western blotting: 0.5-2 □g/mL; Immunohistochemistry: 5-20 □g/mL; Immunocytochemistry: 5-20 □g/mL; Optimal working dilutions must be determined by end user.
Format	PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	TFRC
Function	Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes (By similarity). 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). Positively regulates T and B cell proliferation through iron uptake (By similarity). Acts as a lipid sensor that regulates mitochondrial fusion by regulating activation of the JNK pathway (By similarity). When dietary levels of stearate (C18:0) are low, promotes activation of the JNK pathway, resulting in HUWE1-mediated ubiquitination and subsequent degradation of the mitofusin MFN2 and inhibition of mitochondrial fusion (By similarity). When dietary levels of

	stearate (C18:0) are high, TFRC stearoylation inhibits activation of the JNK pathway and thus degradation of the mitofusin MFN2 (By similarity). Mediates uptake of NICOL1 into fibroblasts where it may regulate extracellular matrix production (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P02786}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:P02786} Melanosome {ECO:0000250|UniProtKB:P02786}

Images

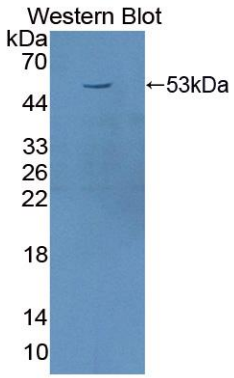

Figure. Western Blot; Sample: Recombinant TFR, Equine.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.