Datasheet for ABIN7505384

Transferrin Protein (TF) (AA 20-348) (His tag)

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Overview

Quantity:	100 µg
Target:	Transferrin (TF)
Protein Characteristics:	AA 20-348
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transferrin protein is labelled with His tag.

Product Details

Sequence:	Val 20-Gly 348
Characteristics:	A DNA sequence encoding the Mouse TRFE protein (Q921I1) (Val 20-Gly 348) was expressed with N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Transferrin (TF)
Abstract:	TF Products
Background:	Abbreviation: TRFE Target Synonym: Apotransferrin,Beta 1 metal binding globulin,Beta-1 metal-binding globulin,TF,TFQTL1,Transferin,Transferrin,TRFE Background: Transferrin is a glycoprotein with an approximate molecular weight of 76.5 kDa.

Target Details

	This glycoprotein is thought to have been created as a result of an ancient gene duplication event that led to generation of homologous C and N-terminal domains each of which binds one ion of ferric iron. The function of Transferrin is to transport iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This protein may also have a physiologic role as granulocyte / pollen-binding protein (GPBP) involved in the removal of certain organic matter and allergens from serum. Transferrins are iron binding transport proteins which bind Fe3+ ion in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation. When a transferrin loaded with iron encounters with a transferring receptor on cell surface, transferring binds to it and, as a consequence, is transported into the cell in a visicle by receptor-mediated endocytosis. The PH is reduced by hydrogen iron pumps. The lower pH causes transferrin to release its iron ions. The receptor is then transported through the endocytic cycle back to the cell surface, ready for another round of iron uptake. Each transferrin molecule has the ability to carry two iron ions in the ferric form.
Molecular Weight:	Calculated MW: 36.08 kDa Observed MW: 38 kDa
UniProt:	Q921I1
Pathways:	Transition Metal Ion Homeostasis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Handling

Expiry Date:	12 months

