

Datasheet for ABIN2444223

Transferrin Receptor Protein (AA 89-760) (His tag,Biotin)[Go to Product page](#)**2** Images

Overview

Quantity:	200 µg
Target:	Transferrin Receptor (TFRC)
Protein Characteristics:	AA 89-760
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Transferrin Receptor protein is labelled with His tag,Biotin.

Product Details

Brand:	MABSol@,UltraLys
Sequence:	AA 89-760
Specificity:	The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.
Characteristics:	This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 76 kDa. The protein migrates as 80-85 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Purity:	>92 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

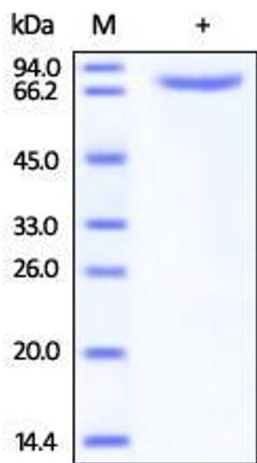
Target:	Transferrin Receptor (TFRC)
Alternative Name:	CD71 (TFRC Products)
Background:	CD antigen CD71 is also known as Transferrin receptor protein 1, TfR, sTfR, p90, TfR1, Trfr, which belongs to the peptidase M28 family and M28B subfamily. CD71 /TfR contains one PA (protease associated) domain. CD71 / TfR1 is required for iron delivery from transferrin to cells. CD71 is a potential new target in cases of human leukomia & lymphoma. CD71 /TFRC / TfR has been shown to interact with GABARAP and HFE.
Molecular Weight:	76.0 kDa
Pathways:	Transition Metal Ion Homeostasis

Application Details

Comment:	<p>A chemically labeled biotinylated protein with ultra sensitivity.</p> <p>The product is produced using a chemical labeling approach. The primary amines in the side chains of lysine residues and the N-terminus of protein are conjugated with biotins.</p> <p>Chemical labeling usually results in multiple biotin attachment on a single protein molecule, which could potentially lead to higher detection sensitivity.</p>
Restrictions:	For Research Use only

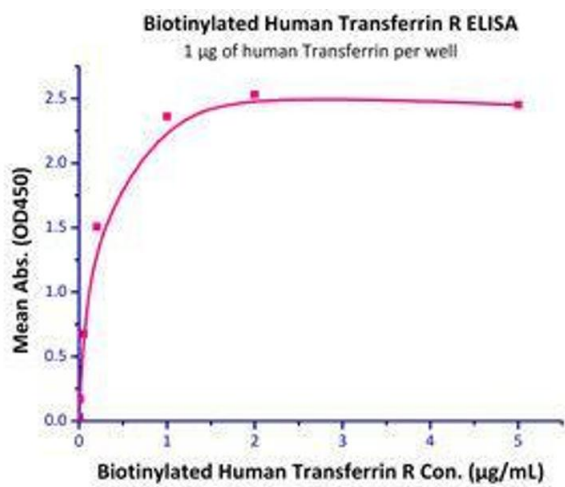
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.



SDS-PAGE

Image 1. Biotinylated Human Transferrin R on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 92%.



Binding Studies

Image 2. Immobilized Human Transferrin, His Tag (Cat# TRN-H4229) at 10 µg/mL (100 µL/well), can bind Biotinylated Human Transferrin R (Cat# TFR-H8243) with a linear range of 2-200 ng/mL.