Datasheet for ABIN2180829

Transferrin Receptor Protein (AA 89-760) (His tag)

2 Images

Go to Product page

Overview

Quantity:	100 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.

Product Details

Sequence:	AA 89-760
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 under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Biological Activity Comment:	Biological Activity: Measured by its binding ability in a functional ELISA. Immobilized rh CD71 /TFR at 10 µg/mL (100 µL/well) can bind human Transferrin. The EC50 of human Transferrin is 6.4 ng/mL.

Target Details

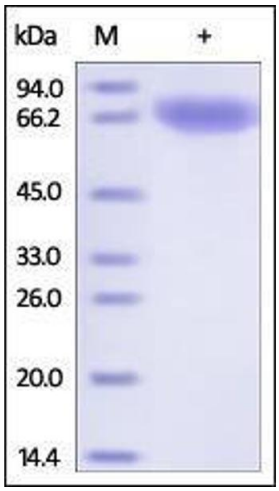
Target:	Transferrin Receptor (TFRC)
Alternative Name:	CD71 (TFRC Products)
Background:	CD antigen CD71 is also known as Transferrin receptor protein 1, TfR, sTfR, p90, TfR1, Trfr, which belongs to the peptidase M28 family and M28B subfamily. CD71 /TFR contains one PA (protease associated) domain. CD71 / 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:	77.0 kDa
NCBI Accession:	NP_003225
UniProt:	P02786
Pathways:	Transition Metal Ion Homeostasis

Application Details

Restrictions:	For Research Use only

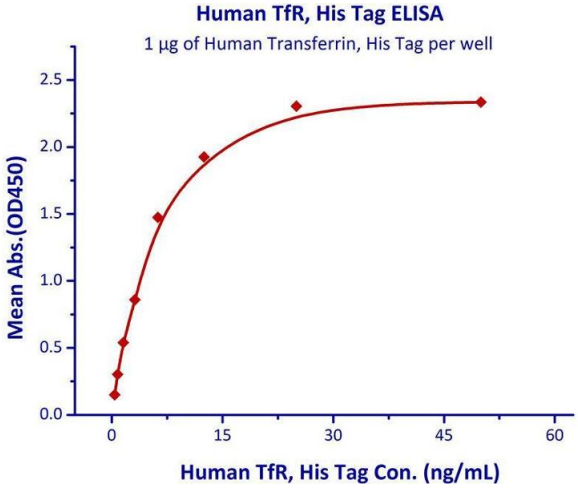
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).



SDS-PAGE

Image 1. Human Transferrin R, His Tag 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 with a linear range of 0.4-6 ng/mL.