

Datasheet for ABIN7275702

Transferrin Receptor Protein (His-Avi Tag)

4 Images

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Overview

Quantity:	100 µg
Target:	Transferrin Receptor (TFRC)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transferrin Receptor protein is labelled with His-Avi Tag.

Product Details

Sequence:	Cys89-Phe760
Purity:	> 95% as determined by Tris-Bis PAGE, > 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human Transferrin R, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-Transferrin R Antibody, hFc Tag with the EC50 of 11.1ng/ml determined by ELISA. The affinity constant of 27.50 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	Transferrin Receptor (TFRC)
Alternative Name:	Transferrin R (TFRC Products)
Background:	TR, TfR1, CD71, sTfR, T9, p90, TFRC, TFR, The transferrin receptor (CD71) is known as a

Target Details

receptor for IgA1 on mesangial cells. The transcript and protein expression of glomerular CD71 was determined by real-time polymerase chain reaction and immunohistochemistry. Human mesangial cells (HMCs) were treated with sera from IgAN patients and expression levels of CD71 and inflammatory cytokine markers were compared according to disease status.

Molecular Weight: 77.9 kDa. Due to glycosylation, the protein migrates to 78-80 kDa based on Tris-Bis PAGE result.

UniProt: [P02786](#)

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

Storage: 4 °C,-80 °C

Storage Comment: Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

Human Transferrin R, His Tag ELISA

0.1 µg Human Transferrin R, His Tag Per Well

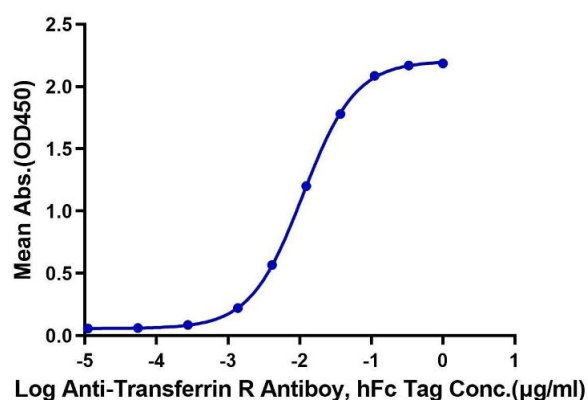
**ELISA**

Image 1. Immobilized Human Transferrin R, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-Transferrin R Antibody, hFc Tag with the EC₅₀ of 11.1 ng/mL determined by ELISA.

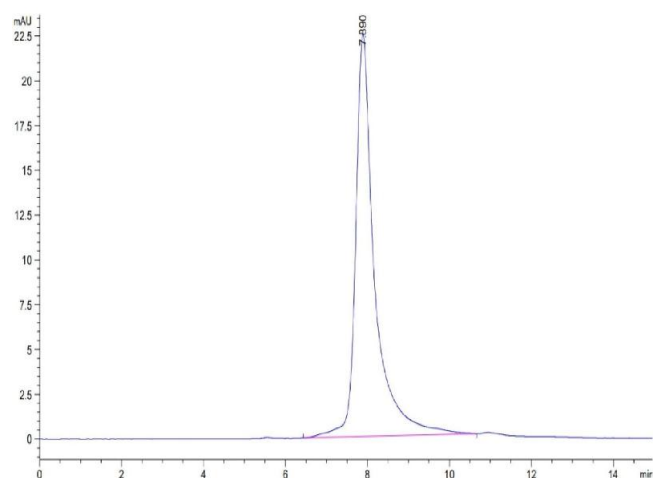
**Size-exclusion chromatography-High Pressure Liquid Chromatography**

Image 2. The purity of Human Transferrin R is greater than 95 % as determined by SEC-HPLC.

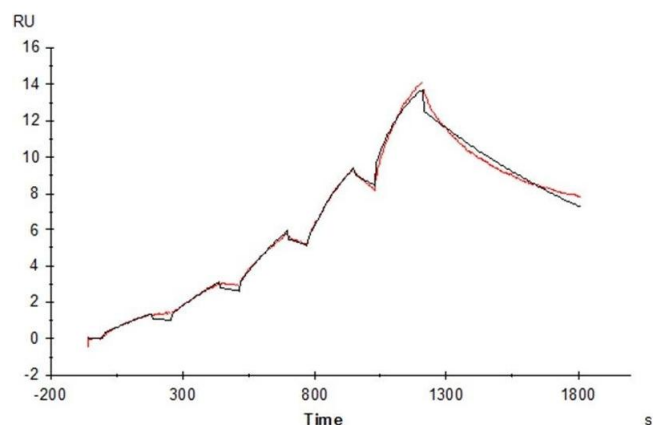
**Surface Plasmon Resonance**

Image 3. Human Transferrin, His Tag immobilized on CM5 Chip can bind Human Transferrin R, His Tag with an affinity constant of 27.50 nM as determined in SPR assay (Biacore T200).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275702.