

Human Transferrin R/CD71 Protein

Cat. No. TFR-HM201

Description

Source	Recombinant Human Transferrin R/CD71 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Cys89-Phe760.
Accession	P02786-1
Molecular Weight	The protein has a predicted MW of 101.8 kDa. Due to glycosylation, the protein migrates to 105-115 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The transferrin receptor (CD71) is known as a 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.

Assay Data

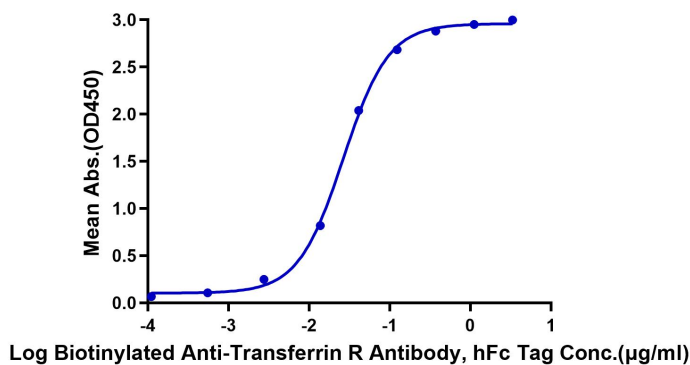
Tris-Bis PAGE



Human Transferrin R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human Transferrin R, hFc Tag ELISA
0.2 μg Human Transferrin R, hFc Tag Per Well

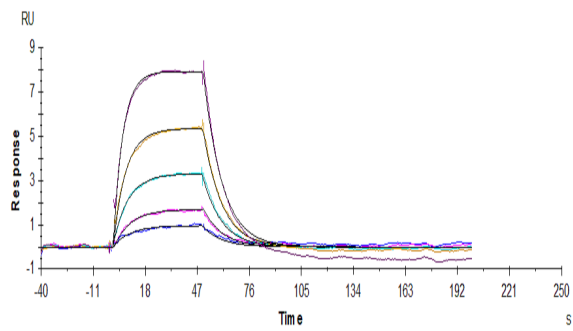


Immobilized Human Transferrin R, hFc Tag at 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) on the plate. Dose response curve for Biotinylated Anti-Transferrin R Antibody, hFc Tag with the EC50 of 26.5ng/ml determined by ELISA (QC Test).

SPR Data

For Research Use Only

Assay Data



Human Transferrin R, hFc Tag captured on CM5 Chip via Anti-Fc Antibody can bind Human Transferrin, His Tag with an affinity constant of 0.1 μ M as determined in SPR assay (Biacore T200).