

Biotinylated Human Transferrin R/CD71 Protein



Cat. No. TFR-HM401B

Description	
Source	Recombinant Biotinylated Human Transferrin R/CD71 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus. It contains Cys89-Phe760.
Accession	P02786
Molecular Weight	The protein has a predicted MW of 77.9 kDa. Due to glycosylation, the protein migrates to 78-85 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

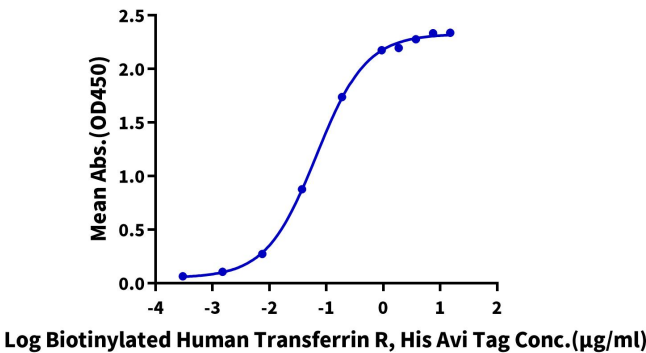
Bis-Tris PAGE



Biotinylated Human Transferrin R on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

ELISA Data

Biotinylated Human Transferrin R, His Avi Tag ELISA
0.2µg Human Transferrin, His Tag Per Well



Immobilized Human Transferrin, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Transferrin R, His Tag with the EC50 of 66.4ng/ml determined by ELISA (QC Test).

Biotinylated Human Transferrin R/CD71 Protein

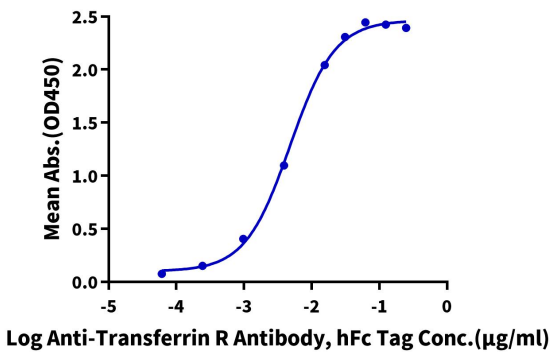
Cat. No. TFR-HM401B



Assay Data

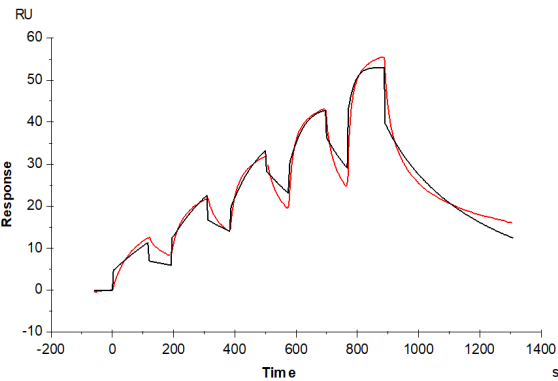
ELISA Data

Biotinylated Human Transferrin R, His Tag ELISA
0.05µg Biotinylated Human Transferrin R, His Tag Per Well



Immobilized Biotinylated Human Transferrin R, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-Transferrin R Antibody, hFc Tag with the EC50 of 4.8ng/ml determined by ELISA.

SPR Data



Human Transferrin, His Tag immobilized on CM5 Chip can bind Biotinylated Human Transferrin R, His-Avi Tag with an affinity constant of 7.73 nM as determined in SPR assay (Biacore T200).