

Biotinylated Human Transferrin R/CD71 Apical Domain Protein



Cat. No. TFR-HM4ADB

Description	
Source	Recombinant Biotinylated Human Transferrin R/CD71 Apical Domain Protein is expressed from HEK293 with His tag and Avi tag at the N-terminus. It contains Lys189-Glu383.
Accession	P02786
Molecular Weight	The protein has a predicted MW of 24.96 kDa. Due to glycosylation, the protein migrates to 32-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

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	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.

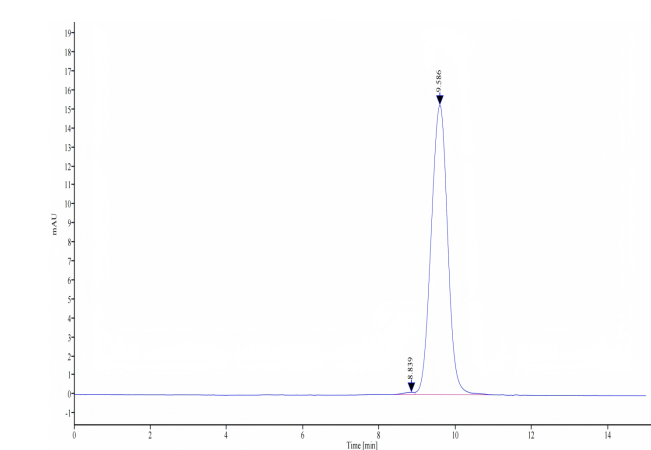
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Biotinylated Human Transferrin R Apical Domain is greater than 95% as determined by SEC-HPLC.

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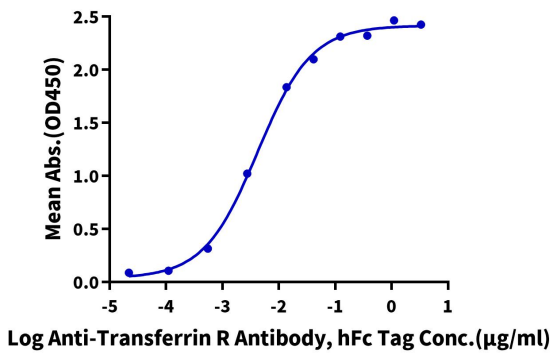


Assay Data

ELISA Data

Biotinylated Human Transferrin R Apical Domain, His Avi Tag ELISA

0.1µg Biotinylated Human Transferrin R Apical Domain, His Avi Tag Per Well



Immobilized Biotinylated Human Transferrin R Apical Domain, His Avi Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-Transferrin R Antibody, hFc Tag with the EC50 of 4.2ng/ml determined by ELISA.