

Human Transferrin R/CD71 Apical Domain Protein



Cat. No. TFR-HM6AD

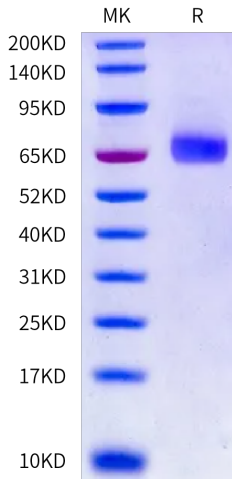
Description	
Source	Recombinant Human Transferrin R/CD71 Apical Domain Protein is expressed from HEK293 with Llama IgG2b Fc tag at the N-terminus. It contains Lys189-Glu383.
Accession	P02786
Molecular Weight	The protein has a predicted MW of 48.42 kDa. Due to glycosylation, the protein migrates to 60-80 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 > 90% 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.	

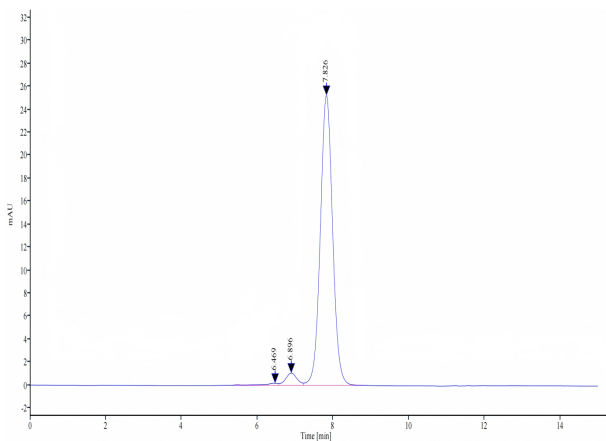
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Human Transferrin R Apical Domain is greater than 90% as determined by SEC-HPLC.

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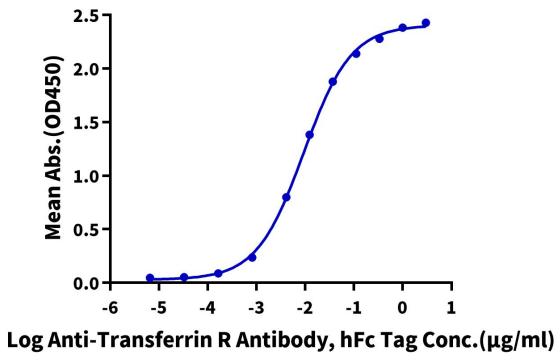


Assay Data

ELISA Data

Human Transferrin R Apical Domain, Llama IgG2b Fc Tag ELISA

0.05µg Human Transferrin R Apical Domain, Llama IgG2b Fc Tag Per Well



Immobilized Human Transferrin R Apical Domain, Llama IgG2b Fc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Transferrin R Antibody, hFc Tag with the EC50 of 9.4ng/ml determined by ELISA.