

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 Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

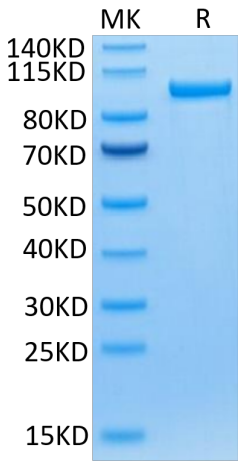
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 24 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

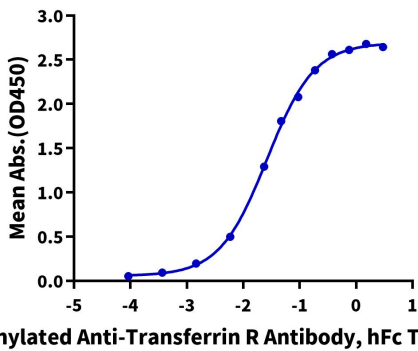
Bis-Tris PAGE



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

ELISA Data

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



Immobilized Human Transferrin R, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-Transferrin R Antibody, hFc Tag with the EC50 of 26.3ng/ml determined by ELISA (QC Test).