

Human Transferrin R/CD71 Nanodisc

Cat. No. TFR-HM60N



Description

Source	Recombinant Human Transferrin R/CD71 Nanodisc is expressed from HEK293 with Twin Strep tag and His tag at the N-terminus.
	It contains MET1-Phe760.
Accession	P02786-1
Molecular Weight	The protein has a predicted MW of 89.62 kDa. Due to glycosylation, the protein migrates to 93-115 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	Supplied as 0.22 µm filtered solution in PBS, 200mM L-arginine (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 6 months from date of receipt when stored at -80°C. 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

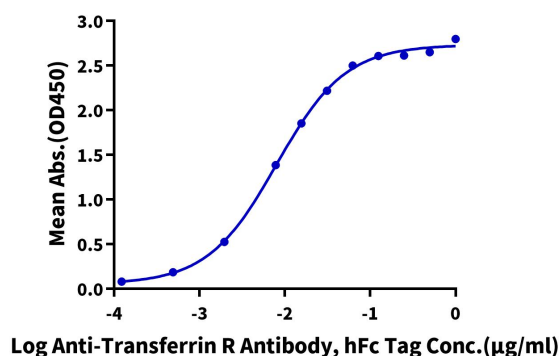


Human Transferrin R Nanodisc on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

ELISA Data

Human Transferrin R Nanodisc, Twin Strep-His Tag ELISA

0.1µg Human Transferrin R Nanodisc, Twin Strep-His Tag Per Well



Immobilized Human Transferrin R Nanodisc, Twin Strep-His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-Transferrin R Antibody, hFc Tag with the EC50 of 8.0ng/ml determined by ELISA.

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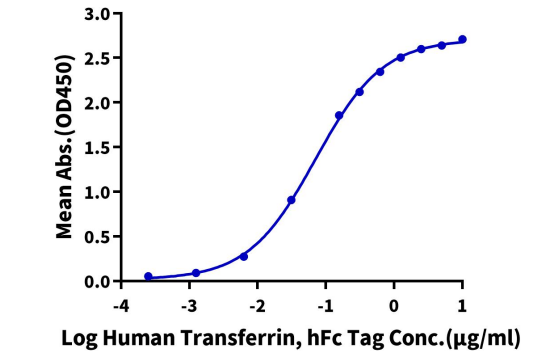


Assay Data

ELISA Data

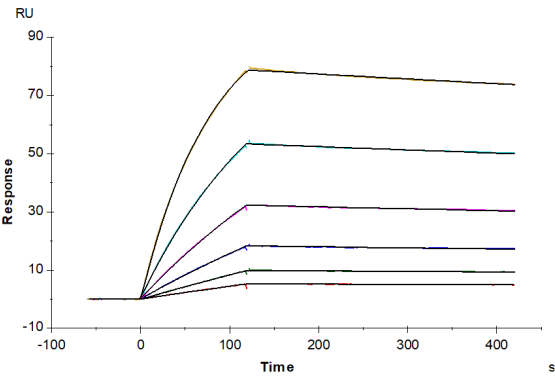
Human Transferrin R Nanodisc, Twin Strep-His Tag ELISA

0.1µg Human Transferrin R Nanodisc, Twin Strep-His Tag Per Well



Immobilized Human Transferrin R Nanodisc, Twin Strep-His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human Transferrin, hFc Tag with the EC50 of 70.1ng/ml determined by ELISA.

SPR Data



Anti-Transferrin R Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Human Transferrin R Nanodisc, Twin Strep, His Tag with an affinity constant of 0.89 nM as determined in SPR assay (Biacore T200).