## **Biotinylated Human GPRC5D Protein-Nanodisc**

# Cat. No. GPR-HM45PB

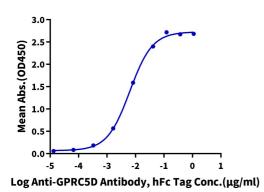
Description	
Source	Recombinant Biotinylated Human GPRC5D Protein-Nanodisc is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Met1-Val345.
Accession	Q9NZD1-1
Molecular Weight	The protein has a predicted MW of 42.10 kDa.
Endotoxin	Less than 1EU per µg by the LAL method.
Formulation and Storage	
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 12 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	
	Chimeric antigen receptor (CAR) T cells, a type of cell-based immunotherapy, have shown some promising results in multiple myeloma, a bone marrow cancer. The orphan G protein–coupled receptor, class C group 5 member D (GPRC5D), normally expressed only in the hair follicle, Using quantitative immunofluorescence, we determined that GPRC5D protein is expressed on CD138 MM cells from primary marrow samples with a distribution that was similar to, but independent of, BCMA.

# Assay Data

#### **ELISA Data**

## Biotinylated Human GPRC5D Nanodisc, His Tag ELISA

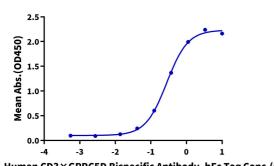
0.5µg Biotinylated Human GPRC5D Nanodisc, His Tag Per Well



Immobilized Biotinylated Human GPRC5D Nanodisc, His Tag at 5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-GPRC5D Antibody, hFc Tag with the EC50 of 6.3ng/ml determined by ELISA (QC Test).

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#### **ELISA Data**



**Biotinylated Human GPRC5D, His Tag ELISA** 0.2µg Human CD3E&CD3D, His Tag Per Well

Log Anti-Human CD3  $\times$  GPRC5D Bispecific Antibody, hFc Tag Conc.( $\mu$ g/ml)

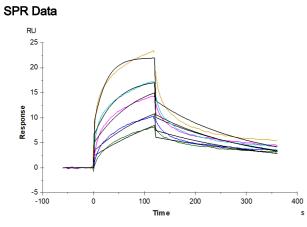
Immobilized Human CD3E&CD3D, His Tag at 2µg/ml (100µl/well) on the plate, add serial dilutions of Anti-Human CD3×GPRC5D Bispecific Antibody, hFc Tag and then add Biotinylated Human GPRC5D Nanodisc, His Tag at 5µg/ml. Detection was performed using HRP-conjugated streptavidin with the EC50 of 0.28µg/ml determined by ELISA.

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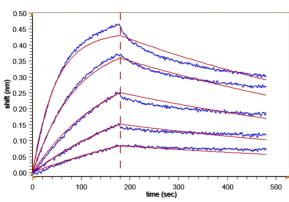
## Assay Data

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Biotinylated Human GPRC5D Nanodisc, His Tag captured on CM5 Chip via Streptavidin can bind Anti-GPRC5D Antibody with an affinity constant of 6.30 nM as determined in SPR assay (Biacore T200).





Loaded Biotinylated Human GPRC5D Nanodisc, His Tag on SA-Biosensor, can bind Anti-GPRC5D Antibody with an affinity constant of 1.16 nM as determined in BLI assay (Gator Prime).