

## Human GPRC5D Protein-Nanodisc

Cat. No. GPR-HM15P



### Description

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| Source           | Recombinant Human GPRC5D Protein-Nanodisc is expressed from HEK293 with His 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

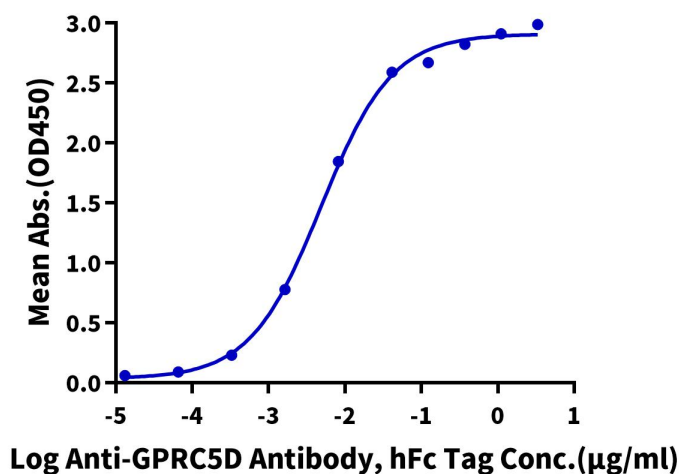
Chimeric antigen receptor (CAR) T cells, a type of cell-based immunotherapy, have shown some promising results in multiple myeloma, a bone marrow cancer. The orphan G protein-coupled receptor, class C group 5 member D (GPRC5D), normally expressed only in the hair follicle. Using quantitative immunofluorescence, 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

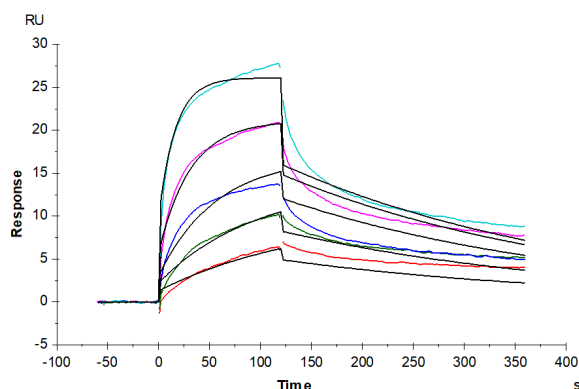
#### Human GPRC5D Nanodisc, His Tag ELISA

0.2µg Human GPRC5D Nanodisc, His Tag Per Well



Immobilized Human GPRC5D Nanodisc, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-GPRC5D Antibody, hFc Tag with the EC<sub>50</sub> of 4.9ng/ml determined by ELISA (QC Test).

#### SPR Data



Human GPRC5D Nanodisc, His Tag captured on CM5 Chip via anti-his antibody can bind Anti-GPRC5D Antibody with an affinity constant of 1.47 nM as determined in SPR assay (Biacore T200).