

**PRODUCT INFORMATION**

<b>Tag</b>	C-Flag Tag
<b>Expression Host</b>	HEK293
<b>Target</b>	GPRC5D
<b>Synonyms</b>	GPRC5D
<b>Description</b>	Human GPRC5D full length protein on exosome
<b>Uniprot ID</b>	Q9NZD1
<b>Protein Families</b>	GPCR
<b>Protein Pathways</b>	N/A
<b>Molecular Weight</b>	The human full length GPRC5D Protein has a MW of 38.6 kDa
<b>Delivery</b>	In Stock
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Background</b>	The protein encoded by this gene is a member of the G protein-coupled receptor family. Recent studies demonstrate that GPRC5D is expressed on malignant bone marrow plasma cells, whereas normal tissue expression is limited to the hair follicle. It may represent a potential target for effector-cell-mediated therapy to treat plasma-cell disorders like MM.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### ELISA assay to evaluate GPRC5D exosome

0.5 $\mu$ g Human GPRC5D exosome per well

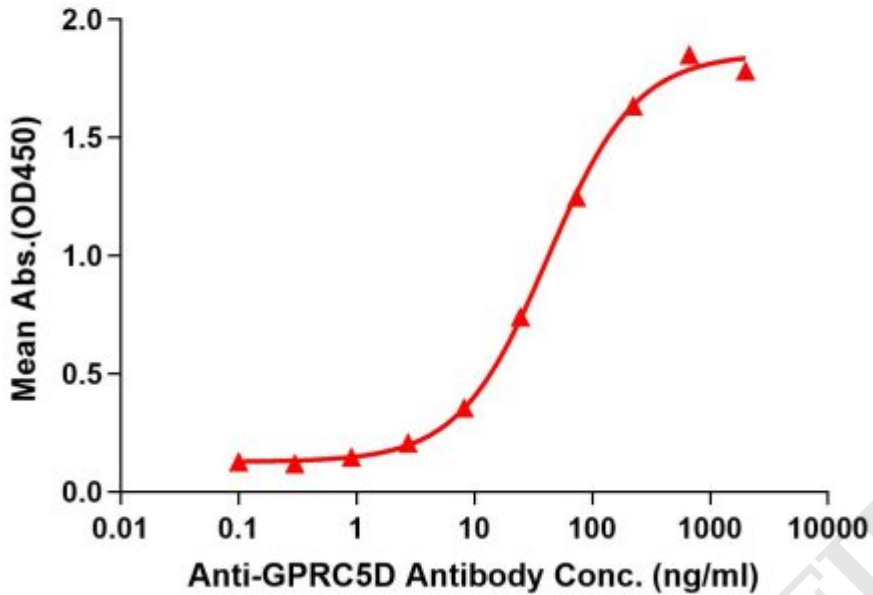


Figure1. Elisa plates were pre-coated with 0.5 $\mu$ g/per well purified human GPRC5D full length protein exosomes. Serial diluted anti-GPRC5D monoclonal antibody (DME100090) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC<sub>50</sub> for anti-GPRC5D monoclonal antibody binding with GPRC5D exosomes is 41.99ng/ml.

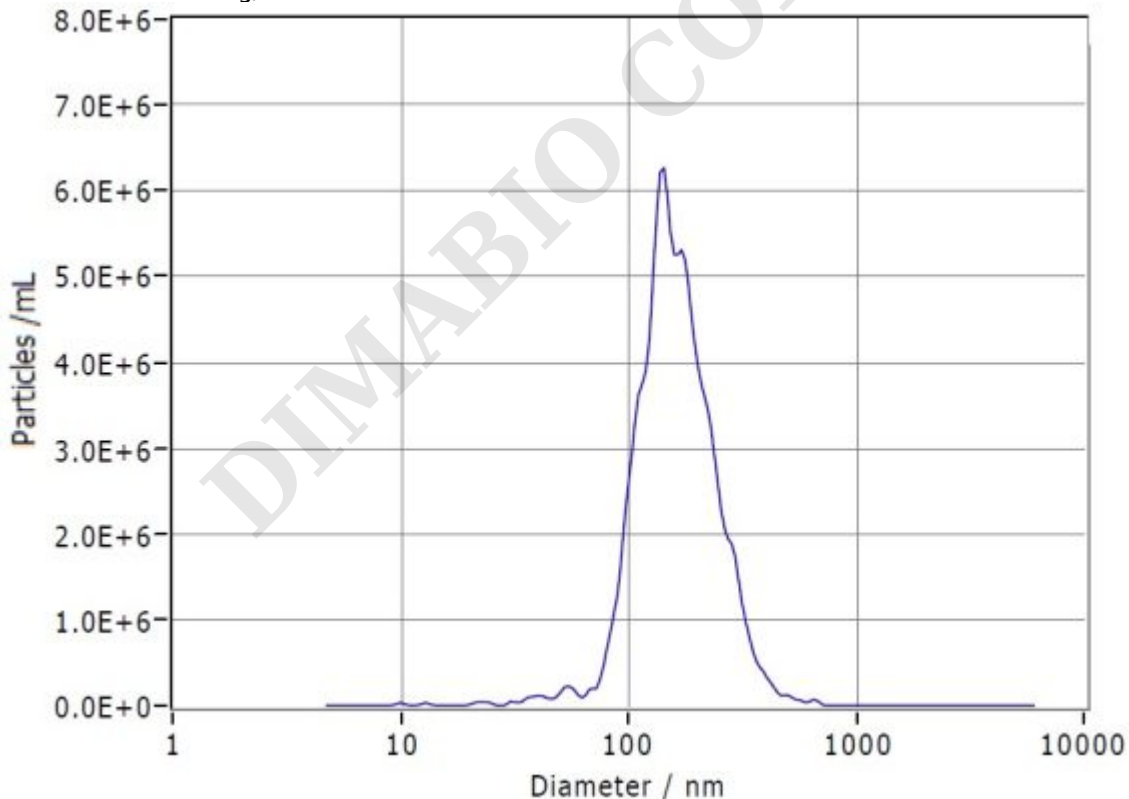


Figure2. Nanoparticle Tracking Analysis of GPRC5D exosomes



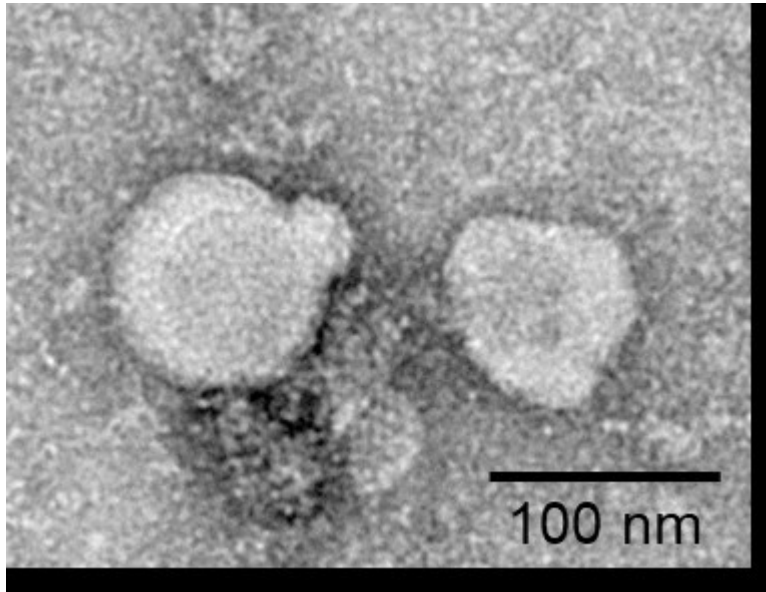


Figure3. TEM image of GPRC5D exosomes

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