

Biotinylated Recombinant Human Glypican-3 /GPC3 Protein

Catalog No.: RP02371B

Sequence Information

Species	Gene ID
Human	2719
Swiss Prot	Tags
P51654	C-His&Avi

Synonyms

GPC3,DGSX, GTR2-2, MXR7, OCI-5, SDYS, SGB, SGBS, SGBS1,GTR2-2,MXR7,OCI-5,SDYS,SGB,SGBS, SGBS1,glypican-3

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE.

Calculated MW	Observed MW
63.6 kDa	42, 68-80 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Glypican-3 is a protein, which is encoded by the GPC3 gene in humans. The protein core of GPC3 consists of two subunits, where the N-terminal subunit has a size of ~40 kDa and the C-terminal subunit is ~30 kDa. Glypican 3 is a potential therapeutic target for treating liver cancer and other cancers. Several therapeutic anti-GPC3 antibodies have been developed.

Basic Information

Description

Biotinylated Recombinant Human Glypican-3/GPC3 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Gln25-His559) of Human GPC3 fused with a His tag and Avi tag at the C-terminal.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

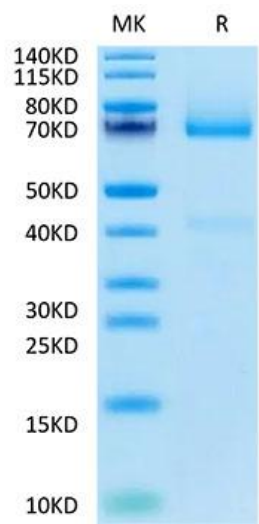
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

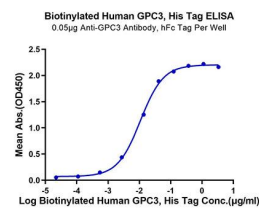
Contact

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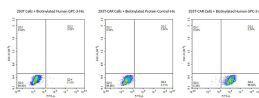
Validation Data



Biotinylated Recombinant Human Glypican-3/GPC3 Protein was determined by Tris-Bis PAGE under reducing conditions with Coomassie Blue.



Immobilized Anti-GPC3 Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate.
Dose response curve for Biotinylated Human GPC3, His Tag with the EC₅₀ of 10.8ng/ml determined by ELISA.



Use Biotinylated Human GPC3-His protein to detect the expression rate of Anti-GPC3-CAR positive cells. 293T cells and anti-GPC3 CAR-293T cells were incubated with Biotinylated human GPC3-His (25-559) , His Tag and Biotinylated Protein Control-His. Non-transfected 293 cells and Biotinylated Protein Control-His were used as negative control. SA-FITC was used to evaluate the binding activity of Biotinylated Human GPC3.