

### Synonym

GPC3,OCI5,Glypican-3,GTR2-2,MXR7,DGSX,SDYS ,SGB,SGBS,SGBS1

### Source

APC-Labeled Human Glypican 3, His Tag (GP3-HA2H9) is produced via conjugation of APC to Human Glypican 3, His Tag with a new generation site-specific technology under optimal conditions with a proprietary technology.

Human Glypican 3, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 25 - His 559 (Accession # [P51654-1](#)).

Predicted N-terminus: Gln 25

### Molecular Characterization

Glypican 3(Gln 25 - His 559) P51654-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 64.5 kDa.

### Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

### Application

Please note that this product is NOT compatible to streptavidin detection system.

### Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, 0.5% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

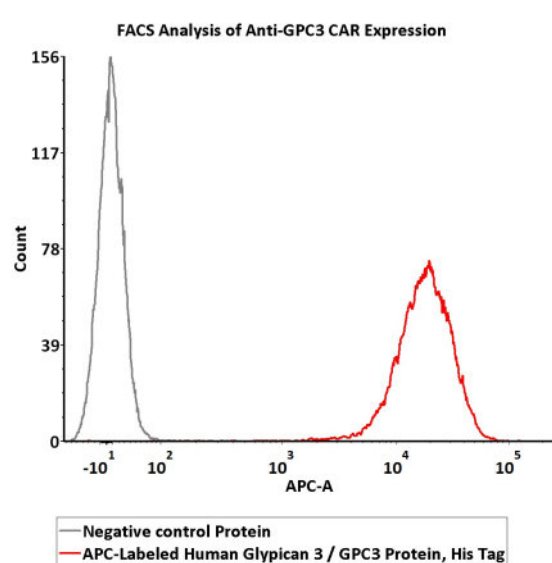
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

### Bioactivity-FACS



5e5 of anti-GPC3 CAR-293 cells were stained with 100  $\mu$ L of 1:25 dilution (4  $\mu$ L stock solution in 100  $\mu$ L FACS buffer) of APC-Labeled Human Glypican 3, His Tag (Cat. No. GP3-HA2H9) and negative control protein respectively. APC signal was used to evaluate the binding activity (QC tested).

### **Background**

Glypican-3 (GPC3) is also known as Intestinal protein OCI-5, GTR2-2, MXR7, which belongs to the glypican family. Glypican 3 / GPC-3 is highly expressed in lung, liver and kidney. Glypican-3 inhibits the dipeptidyl peptidase activity of DPP4. Glypican-3 may be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs, and also may play a role in the modulation of IGF2 interactions with its receptor and thereby modulate its function.

### **Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.