

# Recombinant Human Glycan-3/GPC3 Protein

**Catalog No.: RP00138** Recombinant

## Sequence Information

**Species** Human    **Gene ID** 2719    **Swiss Prot** P51654-1

**Tags**

C-His

**Synonyms**

GPC3;DGSX; GTR2-2; MXR7; OCI-5; SDYS; SGB; SGBS; SGBS1;GTR2-2;MXR7;OCI-5;SDYS;SGB;S GBS;SGBS1;glypican-3

## Background

Glypican-3, also known as Intestinal protein OCI-5, GPC3, and OCI5, is a member of the glypican family. It belongs to the glypican family and is highly expressed in the lung, liver, and kidney. It is a heparan sulfate proteoglycan, which is overexpressed in various neoplasms such as hepatocellular carcinoma, malignant melanoma, and testicular yolk sac tumor, and plays an important role in cell growth and differentiation. GPC3 function is tissue-dependent. In some tissues, GPC3 acts as a tumor suppressor gene, whereas in others, it acts as an oncofetal protein. Studies have shown that GPC3 is a reliable marker for hepatocellular carcinoma. The sensitivity and specificity exceed both alpha-fetoprotein and hepatocyte-paraffin1. GPC3 immunohistochemistry can aid in the differentiation of testicular germ cell tumors, being expressed in all yolk sac tumors but not in seminomas. GPC3 expression has also been identified in some squamous cell carcinomas of the lung and clear cell carcinomas of the ovary.

## Product Information

**Source** HEK293 cells    **Purification**  $\geq 90\%$  as determined by SDS-PAGE.

**Calculated MW** 61.62 kDa    **Observed MW** 40-55, 70-130 kDa.

**Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

**Formulation**

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

**Reconstitution**

Centrifuge the vial 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 freeze/thaw cycles.

## Basic Information

**Description**

Recombinant Human Glycan-3/GPC3 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln25-His559) of human Glypican 3 (Accession #NP\_004475.1) fused with a 6 $\times$ His tag at the C-terminus.

**Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Human FGF2 at 0.5  $\mu$ g/mL (100  $\mu$ L/well) can bind Human GPC3 with a linear range of 7-20 ng/mL.

**Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Storage**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

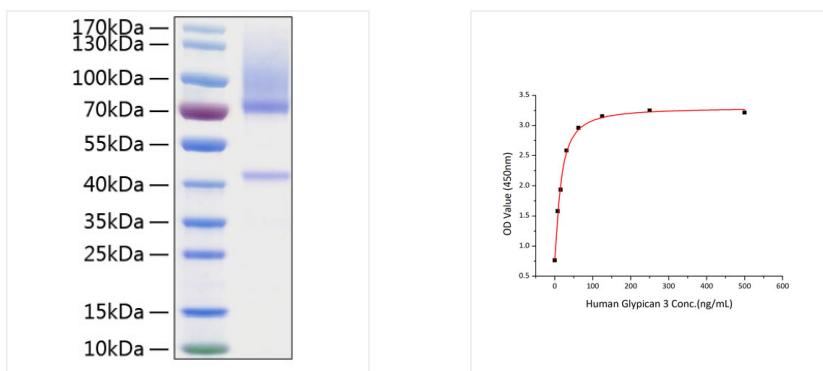
**Operational Notes**

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

## Contact

	400-999-6126
	cn.market@abclonal.com.cn
	<a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>

## Validation Data



Recombinant Human Glycan-3/GPC3  
Protein was determined by SDS-PAGE under  
reducing conditions with Coomassie Blue.

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