

# Human Glypican 1/GPC1 Protein

Cat. No. GPC-HM111



## Description

<b>Source</b>	Recombinant Human Glypican 1/GPC1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Asp24-Ser530.
<b>Accession</b>	P35052-1
<b>Molecular Weight</b>	The protein has a predicted MW of 57.1 kDa. Due to glycosylation, the protein migrates to 70-135 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

CAR-T cells targeting glypican-1 (GPC1)-specific human and murine CAR-T cells generated from our original anti-human/mouse GPC1 antibody showed strong antitumor effects in xenogeneic and syngeneic mouse models, respectively. Importantly, the murine CAR-T cells enhanced endogenous T cell responses against a non-GPC1 tumor antigen through the mechanism of antigen-spreading and showed synergistic antitumor effects with anti-PD-1 antibody without any adverse effects in syngeneic models.

## Assay Data

### Bis-Tris PAGE



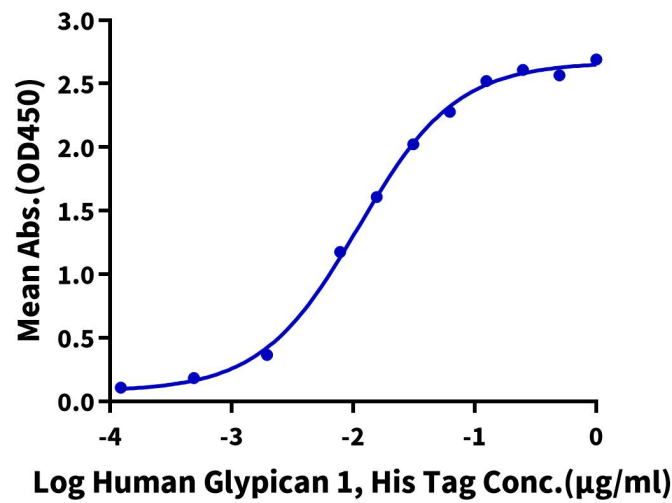
Human Glypican 1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

Human Glypican 1, His Tag ELISA

0.1µg Human FGF basic, No Tag Per Well

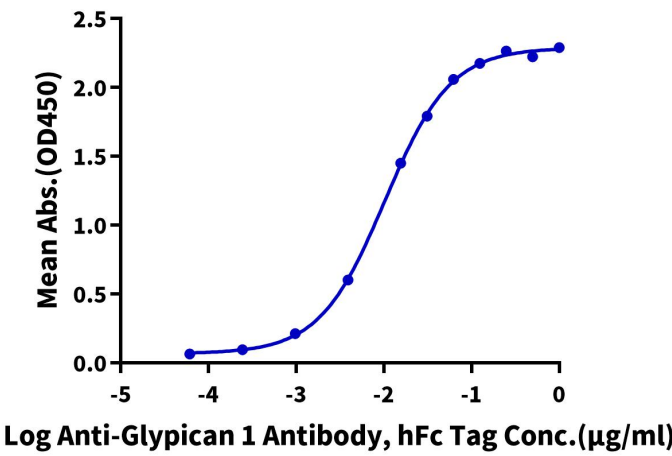


Immobilized Human FGF basic at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human Glypican 1, His Tag with the EC50 of 11.1ng/ml determined by ELISA (QC Test).

ELISA Data

Human Glypican 1, His Tag ELISA

0.05µg Human Glypican 1, His Tag Per Well



Immobilized Human Glypican 1, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Glypican 1 Antibody, hFc Tag with the EC50 of 10.3ng/ml determined by ELISA.