



# Recombinant Protein Technical Manual

## Recombinant Mouse Glypican/GPC1 Protein (His Tag)(Active)

RPES0884

### Product Data:

**Product SKU:** RPES0884

**Size:** 10 $\mu$ g

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q9QZF2

### Protein Information:

**Molecular Mass:** 56.7 kDa

**AP Molecular Mass:** 56 kDa

**Tag:** C-6His

**Bio-activity:** Immobilized Human FGFb(Cat: PKSH032437) at 2 $\mu$ g/ml(100  $\mu$ l/well) can bind Mouse GPC1-His. The ED50 of Mouse GPC1-His is 786 ng/ml .

**Purity:** > 90 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per  $\mu$ g as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2  $\mu$ m filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** Glypican;Gpc1

## Immunogen Information:

**Sequence:** Asp24-Ser529

## Background:

Glypican is a cell membrane protein and belongs to the glypican family. The protein may act as a catalyst in increasing the rate of conversion of prion protein PRPN(C) to PRNP(Sc) via associating (via the heparan sulfate side chains) with both forms of PRPN, targeting them to lipid rafts and facilitating their interaction. It is required for proper skeletal muscle differentiation by sequestering FGF2 in lipid rafts preventing its binding to receptors (FGFRs) and inhibiting the FGF-mediated signaling.