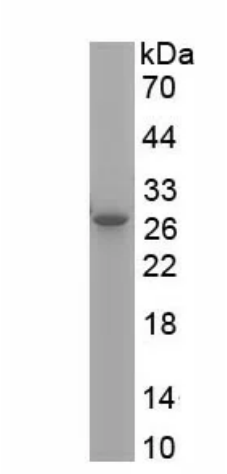
# Active Glypican 5 (GPC5)

*Catalog#:PER12918*

## 概述（Summary）

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|---|---|
| **别称（Alternative Names）** | Glypican Proteoglycan 5; Secreted glypican-5 |
| **纯度（Purity）** | Greater than 90% as determined by reducing SDS-PAGE. |
| **内毒素（Endotoxin level）** | Please contact with the lab for this information |
| **蛋白构建（Construction）** | 【Val27-His241】 |
| **Accession #** | F1M6G7 |
| **表达宿主（Host）** | E.coli |
| **种属（Species）** | Rattus norvegicus (Rat) |
| **预测分子量（Predicted MW）** | 27.8 kDa |
| **制剂（Form）** | Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **运输方式（Shipping）** | The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below. |
| **稳定性&储存（Stability &Storage）** | 12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles. |
| **复溶（Reconstitution）** | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

## 电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

## 活性图（Bioactivity image）

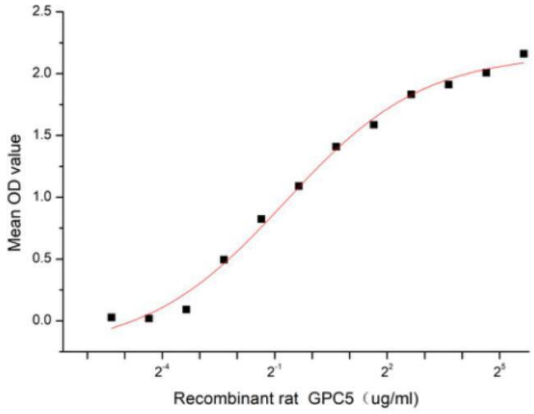



**Figure 1. The binding activity of recombinant rat GPC5 and recombinant human SDC1**

Glypican 5 (GPC5) belongs to the glypican family of proteoglycans that are linked to the cell surface through a glycosyl-phosphatidylinositol anchor. GPC5 is expressed primarily in embryonic neurons and mesenchyme and it is implicated in a variety of physiological processes, ranging from cell proliferation to morphogenesis. Besides, Syndecan 1 (SDC1) has been identified as an interactor of GPC5, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant rat GPC5 and recombinant human SDC1. Briefly, GPC5 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to SDC1-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-GPC5 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant rat GPC5 and recombinant human SDC1 was shown in Figure 1, the EC50 for this effect is 0.6 ug/mL.

## 注意事项（Note）

For Research Use Only , Not for Diagnostic Use.