

Glypican 5 (GPC5) Active Protein | GPC5 active protein

Active Glypican 5 (GPC5)

CATALOG # AAA161913	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Glypican 5 (GPC5); Active Glypican 5 (GPC5); Glypican 5; Glypican Proteoglycan 5; Secreted glypican-54; GPC5 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Val27~His2 41
Applicable Applications for GPC5 active protein	Activity Assay, Cell Culture
Species	Rat
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.3
Research Area	Metabolic pathway
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

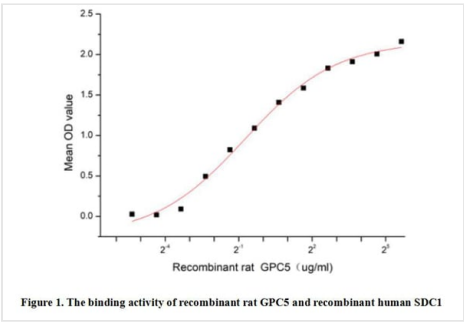
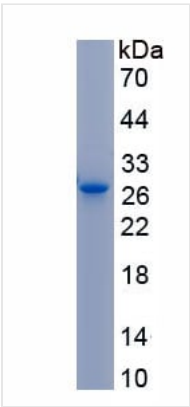


Figure 1. The binding activity of recombinant rat GPC5 and recombinant human SDC1



SDS-PAGE
Figure. SDS-PAGE

Bioactivity
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 ul were then transferred to SDC1-coated microtiter wells and incubated for 1h at 37 degree C. 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 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL 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.

ADDITIONAL INFORMATION

Product Categories/Family for GPC5 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

UniProt Accession #	F1M6G7
Molecular Weight	27kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/glypican-5-gpc5/161913>