

Glypican 3 Active Protein | GPC3 active protein

Glypican 3 Protein, Human, Recombinant (495S/A, hFc Tag)

CATALOG #
AAA257828

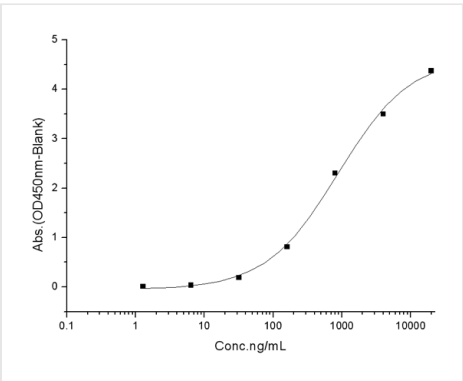
HOST
HEK293 Cells

PRODUCT SYNONYMS

Glypican 3; Glypican 3 Protein; Human; Recombinant (495S/A; hFc Tag); Human Glypican 3/GPC3/OCI-5 Protein (495S/A; Fc Tag); DGSX Protein; GTR2-2 Protein; MXR7 Protein; OCI-5 Protein; SDYS Protein; SGB Protein; SGBS Protein; SGBS1 Protein; glypican 3; GPC3 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ser55 0
Species	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Gln 25
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human GPC3 (NP_004475.1, with mutation Ser 495 Ala)(Met1-Ser550) was expressed with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized FGF2 Protein, Human Cat: 10014-HNAE) at 2ug/mL (100uL/well) can bind Glypican 3 Protein, Human, Recombinant (495S/A, hFc Tag). The EC50 of Glypican 3 is 0.75-1.1ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized FGF2 Protein, Human at 2 ug/mL (100 uL/well) can bind Glypican 3 Protein, Human, Recombinant (495S/A, hFc Tag), the EC50 of Glypican 3 is 0.75-1.1 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for GPC3 active protein	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. The role of GPC3 in melanomas is still controversial. Thus, Glypican-3 is currently regarded as a tumor marker and potential target for immunotherapy.
Product Categories/Family for GPC3 active protein	Cancer Drug Targets
References	Kandil DH, et al. (2009) Glypican-3: a novel diagnostic marker for hepatocellular carcinoma and more. Adv Anat Pathol. 16(2): 125-9. Maeda D, et al. (2009) Glypican-3 expression in clear cell adenocarcinoma of the ovary. Mod Pathol. 22(6): 824-32.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758462
NCBI GeneID	2719
NCBI Accession #	NP_004475.1
NCBI GenBank Nucleotide #	NM_004484.3
UniProt Accession #	P51654
Molecular Weight	65,563 Da
NCBI Official Full Name	glypican-3 isoform 2
NCBI Official Synonym Full Names	glypican 3
NCBI Official Symbol	GPC3
NCBI Official Synonym Symbols	SGB; DGSX; MXR7; SDYS; SGBS; OCI-5; SGBS1; GTR2-2
NCBI Protein Information	glypican-3; secreted glypican-3; glypican proteoglycan 3; intestinal protein OCI-5; heparan sulphate proteoglycan
UniProt Protein Name	Glypican-3

UniProt Gene Name	GPC3
UniProt Synonym Gene Names	OCI5
UniProt Entry Name	GPC3_HUMAN

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://www.aaabiotech.com/hek293-cells-gpc3-active-protein/glypican-3/257828>