

GPC3 recombinant protein

Human GPC3 Protein, hFc Tag

CATALOG #
AAA47529

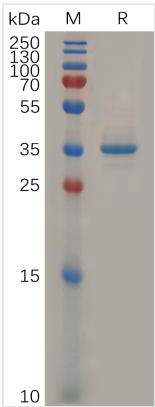
HOST
HEK293

PRODUCT SYNONYMS

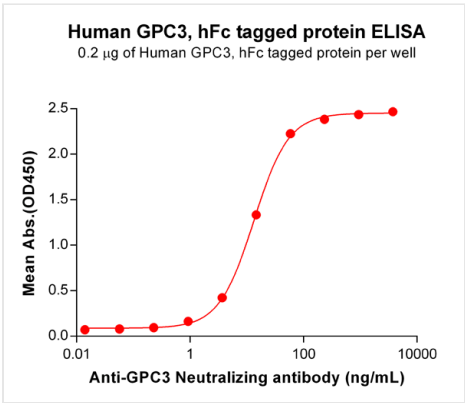
GPC3; Human GPC3 Protein; hFc Tag; DGSX; GTR2-2; MXR7; OCI-5; SDYS; SGB; SGBS; SGBS1; GPC3 recombinant protein

PRODUCT SPECIFICATIONS

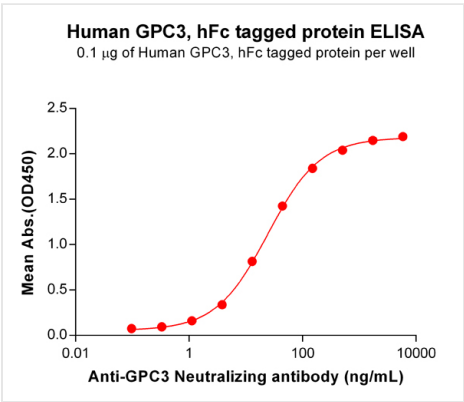
Host	HEK293
Purity/Purification	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Tag	N-Human Fc tag
Visual Inspection	Test: Vial Label Specification: Label aligned and complete Result: Pass Test: Bottle Sealing (manual check) Specification: Sealed tight Result: Pass
Quantity Bioactivity	Test: BCA method Specification: $\geq$ Specified quantity Result: Pass Test: Elisa OD450 value (0.2ug/well) Specification: Bind to anti-DYKDDDDK monoclonal antibody Result: Pass
Other Properties	Test: pH Specification: 7.4 ± 0.5 Result: Pass
Reconstitution	1. Before opening the tube cap, centrifuge the sample tube at 5000g for 3-5min at room temperature to ensure the lyophilized sample to settle down at the bottom of the tube. 2. Dissolved lyophilized protein sample in sterile water based on the recommended volume 14.37uL 3. After adding sterile water, cover the lid and mix them by gently tapping the tube for 5-10 times. Note: do not vortex or vigorously pipette sample.
Target	GPC3
Molecular Characterization	hFc(Glu99-Ala330) GPC3(Asp511-Ser560)
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



SDS-PAGE
Human GPC3 Protein, hFc Tag on SDS-PAGE under reducing condition.



ELISA
ELISA plate pre-coated by 2 ug/mL (100 uL/well) Human GPC3 Protein, hFc Tag (AAA47529) can bind Anti-GPC3 Neutralizing antibody in a linear range of 0.92–58.59 ng/mL.



ELISA
ELISA plate pre-coated by 1 ug/mL (100 uL/well) Human GPC3 Protein, hFc Tag (AAA47529) can bind Anti-GPC3 Neutralizing antibody in a linear range of 1.12-508.85 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for GPC3 recombinant protein	Recombinant Human GPC3 Protein with N-terminal Human Fc tag Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosyl phosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation. The protein encoded by this gene can bind to and inhibit the dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletion mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as Simpson dysmorphia syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]References?Fu Ying,Urban Daniel J,Nani Roger R et al. Glypican-3-Specific Antibody Drug Conjugates Targeting Hepatocellular Carcinoma.[J].Hepatology, 2019, 70: 563-576.Zhang Yi-Fan,Ho Mitchell,Humanization of high-affinity antibodies targeting glypican-3 in hepatocellular carcinoma.[J].Sci Rep, 2016, 6: 33878.
Product Categories/Family for GPC3 recombinant protein	Bioactive Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	257471010
NCBI GeneID	2719
NCBI Accession #	NP_001158091.1
NCBI GenBank Nucleotide #	NM_001164619.1

UniProt Accession #	P51654 ; Q2L880 ; Q2L882 ; C9JLE3 ; G3V1R0
Molecular Weight	Predicted MW: 43.3 kDa, after removal of the signal peptide.
NCBI Official Full Name	glypican-3 isoform 4
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://stage.aaabiotech.com/gpc3-recombinant-protein-hek293/47529>