



Recombinant Human Glypican-3 (GPC3) (G537R), partial (Active)

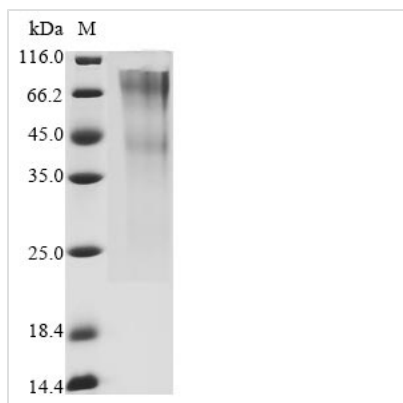
Product Code	CSB-MP009705HU(M)
Abbreviation	Recombinant Human GPC3 protein (G537R), partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P51654
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human GPC3 (G537R) at 5 µg/ml can bind Anti-GPC3 recombinant antibody, the EC ₅₀ is 4.739-7.092 ng/ml.
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QPPPPPPDATCHQVRSFFQRLQPGLKWVPETPVPGSDLQVCLPKGPTCCSR KMEEKYQLTARLNMEQLLQSASMELKFLIIQNAAVFQEA FEIVVRHAKNYTNAM FKNNYPSLTPQAFEFVGEFFTDVSLYILGSDINVDDMVNELFDSLFPVIYTQLM NPGLPDSALDINECLRGARRDLKVFGNFPKLIMTQVSKSLQVTRIFLQALNLGIE VINTTDHLKFSKDCGRMLTRMWYCSYCQGLMMVKPCGGYCNVVMQGC MAG VVEIDKYWREYILSLEELVNGMYRIYDMENVLLGLFSTIHDSIQYVQKNAGKLTT TIGKLCAHSQQRQYRSAYYPEDLFIDKKVLKVAHVEHEETLSSRRRELIQKLKS FISFY SALPGYICSHSPVAENDTLCWNGQELVERY SQKAARNGMKNQFNLHEL KMKGPEPVVSQIIDKLKHINQLLRTMSMPKGRVLDKNLDEEGFESGDCGDDDED ECIGGSGDGMIVKNQLRFLAELAYDLVD DAPRNSQQATPKDNEISTFHNLG NVH
Research Area	Cancer
Source	Mammalian cell
Target Names	GPC3
Expression Region	25-559aa(G537R)
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-Myc-tagged
Mol. Weight	65.0 kDa



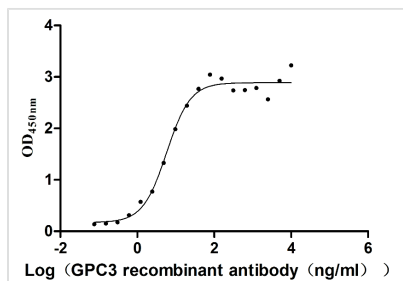
Protein Length

Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized human GPC3 (G537R) at 5 μ g/ml can bind Anti-GPC3 recombinant antibody, the EC_{50} is 4.739-7.092 ng/ml.

Description

The gene fragment corresponding to amino acids 25-559 of the human glypican-3 (GPC3) is expressed in mammalian cells and then is fused with the 6xHis-Myc-tag at the N-terminus. The resulting protein has been validated to be an active protein in the functional ELISA. It can bind to the anti-GPC3 antibody, and the EC_{50} is 4.739-7.092 ng/ml. Its purity is greater than 90% measured by SDS-PAGE. On the gel, this protein migrated to the molecular weight band of 70-90 kDa. The endotoxin of this protein is less than 1.0 EU/ug determined by the LAL method. GPC3 is a cell-surface glycoprotein and has important functions in signaling including cell growth, embryogenesis, and differentiation. GPC3 upregulation has been found in hepatocellular carcinoma (HCC), while GPC3 is absent in normal and cirrhotic liver. GPC3 has recently been identified as a potential hepatocellular carcinoma (HCC) diagnostic and therapeutic target.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at $-20^{\circ}\text{C}/-80^{\circ}\text{C}$. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at $-20^{\circ}\text{C}/-80^{\circ}\text{C}$. The shelf life of lyophilized form is 12 months at $-20^{\circ}\text{C}/-80^{\circ}\text{C}$.