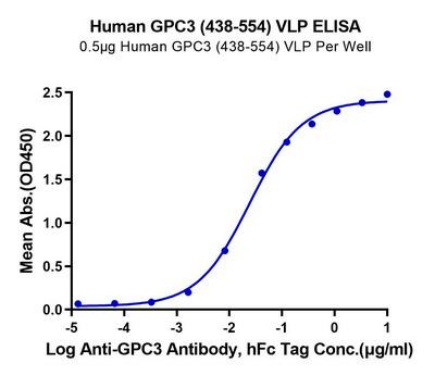
Bioactive HuPro®

GPC3 (Human) Recombinant Protein

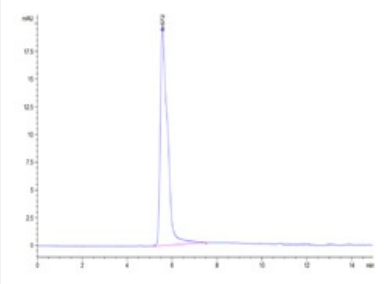
Catalog # P9727 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human GPC3 (438-554) VLP at 5 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-GPC3 Antibody, hFc Tag with the EC50 of 24.1 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human GPC3 (438-554) VLP is greater than 95% as determined by SEC-HPLC.

Specification

Product Description	Human GPC3 (P51654-1, 438 a.a. - 554 a.a.) partial recombinant protein expressed in HEK293 cells.
Sequence	RNGMKNQFNLHELKMKGPEPVVSQIIDKLKHINQLLRTMSMPKGRVLDKNLDEEGFESGDCGDD EDECIGGSGDGMIKVKNQLRFLAELAYDLDVDDAPGNSQQATPKDNEISTFHN
Host	Human
Theoretical MW (kDa)	21.5
Form	Liquid

Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 24.1 ng/mL, messured by ELISA at 5 ug/mL.
Quality Control Testing	SEC-HPLC SEC-HPLC The purity of Human GPC3 (438-554) VLP is greater than 95% as determined by SEC-HPLC.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS pH 7.4
Storage Instruction	Store at -80°C for 12 Month. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human GPC3 (438-554) VLP at 5 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-GPC3 Antibody, hFc Tag with the EC50 of 24.1 ng/mL determined by ELISA.

- Functional Study

- SDS-PAGE

Gene Info — GPC3

Entrez GeneID	2719
Protein Accession#	P51654-1
Gene Name	GPC3
Gene Alias	DGSX, OCI-5, SDYS, SGB, SGBS, SGBS1
Gene Description	glypican 3

Omim ID	194070 300037 312870
Gene Ontology	Hyperlink
Gene Summary	Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein cor e substituted with a variable number of heparan sulfate chains. Members of the glypican-related in tegral 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 contr ol of cell division and growth regulation. The protein encoded by this gene can bind to and inhibit t he dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletio n mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as S impson dysmorphia syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq
Other Designations	OTTHUMP00000024058|OTTHUMP00000062492|glypican proteoglycan 3