GPC3 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	GPC3, Lysate
Full Product Name	Human GPC3 Protein Lysate
Product Gene Name	GPC3 lysate
Product Synonym Names	GPC3; DGSX; GTR2-2; MXR7; OCI-5; SDYS; SGB; SGBS; SGBS1
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	61.8kDa (544aa) 50-70kDa (SDS-PAGE under reducing conditions.)
OMIM	300037
3D Structure	ModBase 3D Structure for P51654
Related Product Information for GPC3 lysate	Human GPC3 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of GPC3 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GPC3 purchase	MBS8412466 is a lysate targeting GPC3. Also known as Human GPC3 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPC3. It may not necessarily be applicable to this product.

NCBI GI #	4758462
NCBI GeneID	2719
NCBI Accession #	NP_004475
UniProt Primary Accession #	P51654
UniProt Secondary Accession #	Q2L880; Q2L882; C9JLE3; G3V1R0
UniProt Related Accession #	P51654
GenBank Nucleotide #	NM_004484
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
UniProt Protein Name	Glypican-3
UniProt Synonym Protein Names	GTR2-2; Intestinal protein OCI-5; MXR7

Protein Family	Glypican
UniProt Gene Name	GPC3
UniProt Synonym Gene Names	OCI5
UniProt Entry Name	GPC3_HUMAN
NCBI Protein Information	glypican-3
NCBI Summary for GPC3	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]
UniProt Comments for GPC3	GPC3: Cell surface proteoglycan that bears heparan sulfate. Inhibits the dipeptidyl peptidase activity of DPP4. May be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs. May play a role in the modulation of IGF2 interactions with its receptor and thereby modulate its function. May regulate growth and tumor predisposition. Defects in GPC3 are the cause of Simpson-Golabi-Behmel syndrome type 1 (SGBS1); also known as Simpson dysmorphia syndrome (SDYS). SGBS is a condition characterized by pre- and postnatal overgrowth (gigantism) with visceral and skeletal anomalies. Belongs to the glypican family. Protein type: Motility/polarity/chemotaxis; Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: Xq26.1 Cellular Component: lysosomal lumen; proteinaceous extracellular matrix; extracellular space; anchored to plasma membrane; Golgi lumen; integral to plasma membrane; plasma membrane Molecular Function: heparan sulfate proteoglycan binding; protein binding Biological Process: phototransduction, visible light; glycosaminoglycan metabolic process; negative regulation of peptidase activity; positive regulation of endocytosis; pathogenesis; osteoclast differentiation; embryonic hindlimb morphogenesis; bone mineralization; body morphogenesis; positive regulation of glucose import; glycosaminoglycan catabolic process; positive regulation of smoothened signaling pathway; retinoid metabolic process; positive regulation of BMP signaling pathway; negative regulation of growth; negative regulation of epithelial cell proliferation; anatomical structure morphogenesis; chondroitin sulfate metabolic process; glycosaminoglycan biosynthetic process; ureteric bud branching; negative regulation of smoothened signaling pathway; carbohydrate metabolic process; positive regulation of protein catabolic process; anterior/posterior axis specification; lung development Disease: Simpson-golabi-behmel Syndrome, Type 1; Wilms Tumor 1
Research Articles on GPC3	**1.** Data indicate that glypican-3 (GPC3) is an important regulator of epithelial-mesenchymal transition (EMT) in breast cancer, and a potential target for procedures against breast cancer metastasis.
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