Glypican 1 (GPC1) ELISA Kit for Sheep

PRODUCT OVERVIEW

Product Name	Glypican 1 (GPC1), ELISA Kit
Full Product Name	Sheep Glypican 1 ELISA Kit
Product Gene Name	GPC1 elisa kit
Species Reactivity	Sheep
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	61,680 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (241375115..241407495). Location: 2q35-q37
OMIM	600395
3D Structure	ModBase 3D Structure for P35052
Related Product Information for GPC1 elisa kit	MBS020249 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Glypican 1 (GPC1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GPC1. The ELISA analytical biochemical technique of the MBS020249 kit is based on GPC1 antibody-GPC1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GPC1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GPC1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of GPC1 elisa kit 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPC1. It may not necessarily be applicable to this product.

NCBI GI #	167001141
NCBI GeneID	2817
NCBI Accession #	NP_002072.2
UniProt Primary Accession #	P35052
UniProt Secondary Accession #	Q53QM4
UniProt Related Accession #	P35052
GenBank Nucleotide #	NM_002081.2
NCBI Official Full Name	glypican-1
NCBI Official Synonym Full Names	glypican 1
NCBI Official Symbol	GPC1
NCBI Official Synonym Symbols	glypican
UniProt Protein Name	Glypican-1

Protein Family	Glypican
UniProt Gene Name	GPC1
UniProt Entry Name	GPC1_HUMAN
NCBI Protein Information	glypican-1; glypican proteoglycan 1
NCBI Summary for GPC1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for GPC1	GPC1: Cell surface proteoglycan that bears heparan sulfate. Binds, via the heparan sulfate side chains, alpha-4 (V) collagen and participates in Schwann cell myelination. May act as a catalyst in increasing the rate of conversion of prion protein PRPN(C) to PRNP(Sc) via associating (via the heparan sulfate side chains) with both forms of PRPN, targeting them to lipid rafts and facilitating their interaction. Required for proper skeletal muscle differentiation by sequestering FGF2 in lipid rafts preventing its binding to receptors (FGFRs) and inhibiting the FGF-mediated signaling. Associates (via the heparan sulfate side chains) with fibrillar APP-beta amyloid peptides in primitive and classic amyloid plaques and may be involved in the deposition of these senile plaques in the Alzheimer disease (AD) brain. Misprocessing of GPC1 is found in fibroblasts of patients with Niemann-Pick Type C1 disease. This is due to the defective deaminative degradation of heparan sulfate chains. Belongs to the glypican family. Protein type: Membrane protein, GPI anchor; Motility/polarity/chemotaxis; Extracellular matrix Chromosomal Location of Human Ortholog: 2q35-q37 Cellular Component: extracellular space; lysosomal lumen; proteinaceous extracellular matrix; integral to plasma membrane; Golgi lumen; plasma membrane; endosome; lipid raft Molecular Function: heparan sulfate proteoglycan binding; fibroblast growth factor binding; copper ion binding; laminin binding Biological Process: chondroitin sulfate metabolic process; Schwann cell differentiation; axon guidance; phototransduction, visible light; myelin formation; glycosaminoglycan biosynthetic process; glycosaminoglycan catabolic process; heparan sulfate proteoglycan catabolic process; glycosaminoglycan metabolic process; negative regulation of fibroblast growth factor receptor signaling pathway; carbohydrate metabolic process; pathogenesis; retinoid metabolic process
Research Articles on GPC1	**1.** Crystal structure of N-glycosylated human glypican-1 core protein shows the structure of two loops evolutionarily conserved in vertebrate glypican-1
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