

# GPC3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02788

## Basic Information

### Catalog No.

RM02788

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

GPC3

### Species

Human

### Gene ID

2719

### Swiss Prot

P51654

### Synonyms

SGB; DGSX; MXR7; SDYS; SGBS; OCI-5;  
SGBS1; GTR2-2; Glypican 3 (GPC3)

## Contact

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## Background

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.

## Product Information

### Description

GPC3 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:76bp deletion in exon1

Allele-2:76bp deletion in exon1

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

### Packaging

1 vial parental cell Lysate and 1 vial knockout cell Lysate

### Shipping Conditions

4°C

### Amount

50μL, 2μg/μL.

### Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

### Protocol

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data

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WT GCCGGGACCGTGCG\*\*\*\*\*GACGCCACCTGTC  
Mut GCCGGGACCGTGCG\*\*\*Deletion\*\*\*GACGCCACCTGTC  
Allele-1: 76bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and GPC3 knockout (KO) 293T cells, using sanger sequencing.

WT GCCGGGACCGTGCG\*\*\*\*\*GACGCCACCTGTC  
Mut GCCGGGACCGTGCG\*\*\*Deletion\*\*\*GACGCCACCTGTC  
Allele-2: 76bp deletion in exon1