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GPC3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02788

Basic Information

Catalog No.
RM02788

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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.

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)

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℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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.

Contact

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Sequencing data

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

WT   GCCGGGACCGTGCG**********GACGCCACCTGTC
Mut  GCCGGGACCGTGCG***Deletion***GACGCCACCTGTC
Allele-2:   76bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and GPC3 knockout (KO) 293T cells, using sanger sequencing.