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GLUL Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02384

Basic Information

Catalog No.
RM02384

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia in an ATP-dependent reaction. This protein plays a role in ammonia and glutamate detoxification, acid-base homeostasis, cell signaling, and cell proliferation. Glutamine is an abundant amino acid, and is important to the biosynthesis of several amino acids, pyrimidines, and purines. Mutations in this gene are associated with congenital glutamine deficiency, and overexpression of this gene was observed in some primary liver cancer samples. There are six pseudogenes of this gene found on chromosomes 2, 5, 9, 11, and 12. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Gene Information

Gene Symbol
GLUL

Species
Human

Gene ID
2752

Swiss Prot
P15104

Synonyms
GLNS; GS; PIG43; PIG59

Product Information

Description
GLUL Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:exon1 was destroyed
Allele-2:exon1 was destroyed
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    CTGCAAGACCCGGA**************ATGCTGGGTGGGAT
Mut   CTGCAAGACCCGGA***Deletion***ATGCTGGGTGGGAT
Allele-1: exon1 was destroyed

WT    CTGCAAGACCCGGA**************TGCTGGGTGGGATC
Mut   CTGCAAGACCCGGA***Deletion***TGCTGGGTGGGATC
Allele-2: exon1 was destroyed
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Genome sequence analysis of PCR products from parental (WT) and GLUL knockout (KO) 293T cells, using sanger sequencing.

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