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ISL1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02789

Basic Information

Catalog No.
RM02789

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the LIM/homeodomain family of transcription factors. The encoded protein binds to the enhancer region of the insulin gene, among others, and may play an important role in regulating insulin gene expression. The encoded protein is central to the development of pancreatic cell lineages and may also be required for motor neuron generation. Mutations in this gene have been associated with maturity-onset diabetes of the young.

Gene Information

Gene Symbol
ISL1

Species
Human

Gene ID
3670

Swiss Prot
P61371

Synonyms
Isl-1; ISLET1; Islet1

Product Information

Description
ISL1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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

```
WT    GCTGTTCACCAACT**********TGCGGGGTTCTCTC
Mut   GCTGTTCACCAACT***Deletion***TGCGGGGTTCTCTC
Allele-1:    exon1 was deleted

WT    GCTGTTCACCAACT**********TGCGGGGTTCTCTC
Mut   GCTGTTCACCAACT***Deletion***TGCGGGGTTCTCTC
Allele-2:    exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and ISL1 knockout (KO) 293T cells, using sanger sequencing.