

# ISL1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02789

## Basic Information

### Catalog No.

RM02789

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

ISL1

### Species

Human

### Gene ID

3670

### Swiss Prot

P61371

### Synonyms

Isl-1; ISLET1; Islet1

## Contact

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## 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.

## 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°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 GCTGTTACCAACT\*\*\*\*\*TGCGGGTTCTCTC  
Mut GCTGTTACCAACT\*\*\*Deletion\*\*\*TGCGGGTTCTCTC  
Allele-1: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and ISL1 knockout (KO) 293T cells, using sanger sequencing.

WT GCTGTTACCAACT\*\*\*\*\*TGCGGGTTCTCTC  
Mut GCTGTTACCAACT\*\*\*Deletion\*\*\*TGCGGGTTCTCTC  
Allele-2: exon1 was deleted