

OCT2 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02790

Basic Information

Catalog No.

RM02790

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

OCT2

Species

Human

Gene ID

5452

Swiss Prot

P09086

Synonyms

POU2F2; OTF2; Oct-2

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Background

The protein encoded by this gene is a homeobox-containing transcription factor of the POU domain family. The encoded protein binds the octamer sequence 5'-ATTGTCAT-3', a common transcription factor binding site in immunoglobulin gene promoters. Several transcript variants encoding different isoforms have been found for this gene.

Product Information

Description

OCT2 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

WT CTGAGTGACTTCCG*****GTCCCCGCTAACCC
Mut CTGAGTGACTTCCG***Deletion***GTCCCCGCTAACCC
Allele-1: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and OCT2 knockout (KO) 293T cells, using sanger sequencing.

WT CTGAGTGACTTCCG*****CCGGGTCCCGCCTA
Mut CTGAGTGACTTCCG***Deletion***CCGGGTCCCGCCTA
Allele-2: exon1 was deleted