

# NR1I3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02273

## Basic Information

### Catalog No.

RM02273

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

NR1I3

### Species

Human

### Gene ID

9970

### Swiss Prot

Q14994

### Synonyms

CAR; CAR1; MB67

## Contact

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## Background

This gene encodes a member of the nuclear receptor superfamily, and is a key regulator of xenobiotic and endobiotic metabolism. The protein binds to DNA as a monomer or a heterodimer with the retinoid X receptor and regulates the transcription of target genes involved in drug metabolism and bilirubin clearance, such as cytochrome P450 family members. Unlike most nuclear receptors, this transcriptional regulator is constitutively active in the absence of ligand but is regulated by both agonists and inverse agonists. Ligand binding results in translocation of this protein to the nucleus, where it activates or represses target gene transcription. These ligands include bilirubin, a variety of foreign compounds, steroid hormones, and prescription drugs. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

## Product Information

### Description

NR1I3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:59bp deletion in exon3

Allele-2:73bp deletion in exon3

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   AAGCAGGCCAGCG\*\*\*\*\*TCCTGGGGGCCAC  
Mut   AAGCAGGCCAGCG\*\*\*Deletion\*\*\*TCCTGGGGGCCAC  
Allele-1: 59bp deletion in exon3  
  
WT    GCGGCGAGCAAAGC\*\*\*\*\*GGGGGCCACACC  
Mut   GCGGCGAGCAAAGC\*\*\*Deletion\*\*\*GGGGGCCACACC  
Allele-2: 73bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and NR1I3 knockout (KO) 293T cells, using sanger sequencing.