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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

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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℃

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.

Sequencing data

```
WT     AAGCAGGCCCAGCG**************TCCTGGGGGCCCAC
Mut    AAGCAGGCCCAGCG***Deletion***TCCTGGGGGCCCAC
Allele-1：59bp deletion in exon3
WT     GCGGCGAGCAAAGC**************GGGGGCCCACACCC
Mut    GCGGCGAGCAAAGC***Deletion***GGGGGCCCACACCC
Allele-2：73bp deletion in exon3
```

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

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