

POR Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02492

Basic Information

Catalog No.

RM02492

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

POR

Species

Human

Gene ID

5447

Swiss Prot

P16435

Synonyms

CPR; CYPOR; P450R

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Background

This gene encodes an endoplasmic reticulum membrane oxidoreductase with an FAD-binding domain and a flavodoxin-like domain. The protein binds two cofactors, FAD and FMN, which allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in this gene have been associated with various diseases, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome. [provided by RefSeq, Jul 2008]

Product Information

Description

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

Allele-1:73bp deletion in exon1

Allele-2:73bp deletion in exon1

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 ACCGTGTCCGAGGC*****TACTGGTTCCTTT
Mut ACCGTGTCCGAGGC***Deletion***TACTGGTTCCTTT
Allele-1: 73bp deletion in exon1

WT ACCGTGTCCGAGGC*****TACTGGTTCCTTT
Mut ACCGTGTCCGAGGC***Deletion***TACTGGTTCCTTT
Allele-2: 73bp deletion in exon1

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