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# POR Knockout 293T Cell Lysate, Homozygous

**Catalog No.: RM02492**

## Basic Information

**Catalog No.**
RM02492

**Category**
Cell Lysate

**Parental Cell line**
293T

**Genotype**
Knockout

## 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]

## Gene Information

**Gene Symbol**
POR

**Species**
Human

**Gene ID**
5447

**Swiss Prot**
P16435

**Synonyms**
CPR; CYPOR; P450R

## 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℃

**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.

## Contact


400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

## Sequencing data

```
WT    ACCGTGTCCGAGGC**********TACTGGTTCCTCTT
Mut   ACCGTGTCCGAGGC***Deletion***TACTGGTTCCTCTT
Allele-1:   73bp deletion in exon1

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

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



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