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# CHP1 Knockout 293T Cell Lysate, Homozygous

**Catalog No.: RM50101**

## Basic Information

**Catalog No.**
RM50101

**Category**
Cell Lysate

**Parental Cell line**
293T

**Genotype**
Knockout

## Background

This gene encodes a phosphoprotein that binds to the Na+/H+ exchanger NHE1. This protein serves as an essential cofactor which supports the physiological activity of NHE family members and may play a role in the mitogenic regulation of NHE1. The protein shares similarity with calcineurin B and calmodulin and it is also known to be an endogenous inhibitor of calcineurin activity.

## Gene Information

**Gene Symbol**
CHP1

**Species**
Human

**Gene ID**
11261

**Swiss Prot**
Q99653

**Synonyms**
CHP; p22; p24; SPAX9; Sid470p; SLC9A1BP; CHP1

## Product Information

**Description**
CHP1 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℃

**Amount**
50μL, 2μg/μL.

**Storage**
Lysate is stable for 12 months when stored at -20℃. 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.

## Contact


400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

## Sequencing data

```
WT    GGAGCTCCCGGCAC**********TAAGGTCTGGAGC
Mut   GGAGCTCCCGGCAC***Deletion***TAAGGTCTGGAGC
Allele-1:    exon1 was deleted

WT    AGGAGCTCCCGGCA**********TAAGGTCTGGAGC
Mut   AGGAGCTCCCGGCA***Deletion***TAAGGTCTGGAGC
Allele-2:    exon1 was deleted
```

Genome sequence analysis of PCR products from parental (WT) and CHP1 knockout (KO) 293T cells, using sanger sequencing.