

# CHP1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50101

## Basic Information

### Catalog No.

RM50101

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

CHP1

### Species

Human

### Gene ID

11261

### Swiss Prot

Q99653

### Synonyms

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

## Contact

 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

This gene encodes a phosphoprotein that binds to the Na<sup>+</sup>/H<sup>+</sup> 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.

## 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°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 GGAGTCCCGCAC\*\*\*\*\*TAAGTCTGGAGC  
Mut GGAGTCCCGCAC\*\*\*Deletion\*\*\*TAAGTCTGGAGC  
Allele-1: exon1 was deleted

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

WT AGGAGTCCCGCA\*\*\*\*\*TAAGTCTGGAGC  
Mut AGGAGTCCCGCA\*\*\*Deletion\*\*\*TAAGTCTGGAGC  
Allele-2: exon1 was deleted