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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

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Sequencing data

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

WT    AGGAGCTCCCGGCA**********TAAGGTCTGGAGC
Mut   AGGAGCTCCCGGCA***Deletion***TAAGGTCTGGAGC
Allele-2:    exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and CHP1 knockout (KO) 293T cells, using sanger sequencing.