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# ABCC4 Knockout 293T Cell Lysate, Homozygous

**Catalog No.: RM50088**

## Basic Information

**Catalog No.**
RM50088

**Category**
Cell Lysate

**Parental Cell line**
293T

**Genotype**
Knockout

## Background

The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This family member plays a role in cellular detoxification as a pump for its substrate, organic anions. It may also function in prostaglandin-mediated cAMP signaling in ciliogenesis. Alternative splicing of this gene results in multiple transcript variants.

## Gene Information

**Gene Symbol**
ABCC4

**Species**
Human

**Gene ID**
10257

**Swiss Prot**
O15439

**Synonyms**
MRP4; MOATB; MOAT-B; MRP4/ABCC4

## Product Information

**Description**
ABCC4 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:19bp deletion in exon2
Allele-2:2bp deletion in exon2
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

```
WT   CTGCCAGAAGACCG**********GAGTTGCAAGGGTA
Mut  CTGCCAGAAGACCG***Deletion***GAGTTGCAAGGGTA
Allele-1:   19bp deletion in exon2

WT   AGACCGCTCACAGC**********CTTGGAGAGGAGTT
Mut  AGACCGCTCACAGC***Deletion***CTTGGAGAGGAGTT
Allele-2:   2bp deletion in exon2
```

Genome sequence analysis of PCR products from parental (WT) and ABCC4 knockout (KO) 293T cells, using sanger sequencing.