

# ABCC4 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50088

## Basic Information

**Catalog No.**

RM50088

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

ABCC4

**Species**

Human

**Gene ID**

10257

**Swiss Prot**

O15439

**Synonyms**

MRP4; MOATB; MOAT-B; MRP4/ABCC4

## Contact

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## 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.

## 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°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 CTGCCAGAAGACCG\*\*\*\*\*GAGTTGCAAGGGTA  
Mut CTGCCAGAAGACCG\*\*\*Deletion\*\*\*GAGTTGCAAGGGTA  
Allele-1: 19bp deletion in exon2

WT AGACCGCTCACAGC\*\*\*\*\*CTTGAGAGGAGTT  
Mut AGACCGCTCACAGC\*\*\*Deletion\*\*\*CTTGAGAGGAGTT  
Allele-2: 2bp deletion in exon2

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