

# ABCB1 Knockout 293T Cell Lysate, Homozygous

**Catalog No.: RM02482**

## Basic Information

**Catalog No.**

RM02482

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

ABCB1

**Species**

Human

**Gene ID**

5243

**Swiss Prot**

P08183

**Synonyms**

ABC20; CD243; CLCS; GP170; MDR1; P-GP; PGY1

## Contact

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## Background

The membrane-associated 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 MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Feb 2017]

## Product Information

**Description**

ABCB1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:53bp deletion in exon3

Allele-2:53bp deletion in exon3

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    TTGACAAGTTGTAT\*\*\*\*\*GATGCTGGTGTTTG  
Mut   TTGACAAGTTGTAT\*\*\*Deletion\*\*\*GATGCTGGTGTTTG  
Allele-1: 53bp deletion in exon3  
  
WT    TTGACAAGTTGTAT\*\*\*\*\*GATGCTGGTGTTTG  
Mut   TTGACAAGTTGTAT\*\*\*Deletion\*\*\*GATGCTGGTGTTTG  
Allele-2: 53bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and ABCB1 knockout (KO) 293T cells, using sanger sequencing.