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ABCC4 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02259

Basic Information

Catalog No.
RM02259

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
ABCC4

Species
Human

Gene ID
10257

Swiss Prot
O15439

Synonyms
MOAT-B; MOATB; MRP4

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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. [provided by RefSeq, Sep 2014]

Product Information

Description
ABCC4 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:2bp deletion in exon2
Allele-2:23bp 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
Store at -20℃

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

WT GACCGCTCACAGCA**********TTGGAGAGGAGTTG
Mut GACCGCTCACAGCA***Deletion***TTGGAGAGGAGTTG
Allele-1: 2bp deletion in exon2

WT TATGTATTCAGTGC**********CTTGGAGAGGAGTT
Mut TATGTATTCAGTGC***Deletion***CTTGGAGAGGAGTT
Allele-2: 23bp deletion in exon2

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