

CYCS Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02064

Basic Information

Catalog No.

RM02064

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

CYCS

Species

Human

Gene ID

54205

Swiss Prot

P99999

Synonyms

CYC; HCS; THC4

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Background

This gene encodes a small heme protein that functions as a central component of the electron transport chain in mitochondria. The encoded protein associates with the inner membrane of the mitochondrion where it accepts electrons from cytochrome b and transfers them to the cytochrome oxidase complex. This protein is also involved in initiation of apoptosis. Mutations in this gene are associated with autosomal dominant nonsyndromic thrombocytopenia. Numerous processed pseudogenes of this gene are found throughout the human genome.[provided by RefSeq, Jul 2010]

Product Information

Description

CYCS Knockout 293T 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°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

WT TGGATTGGTAATTA*****CTATCAGGAGTGTG
Mut TGGATTGGTAATTA***Deletion***CTATCAGGAGTGTG
Allele-1: exon1 was deleted
WT TGGATTGGTAATTA*****CTATCAGGAGTGTG
Mut TGGATTGGTAATTA***Deletion***CTATCAGGAGTGTG
Allele-2: exon1 was deleted

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