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GSR Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50043

Basic Information

Catalog No.

RM50043

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Background

This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. This enzyme is a homodimeric flavoprotein. It is a central enzyme of cellular antioxidant defense, and reduces oxidized glutathione disulfide (GSSG) to the sulfhydryl form GSH, which is an important cellular antioxidant. Rare mutations in this gene result in hereditary glutathione reductase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been found.

Gene Information

Gene Symbol

GSR

Species

Human

Gene ID

2936

Swiss Prot

P00390

Synonyms

GR; GSRD; HEL-75; HEL-S-122m; GSR

Contact

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Product Information

Description

GSR Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:109bp deletion in exon1

Allele-2:109bp deletion in exon1

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

Amount

4°C

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 $1\times$ 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 CCCGCCGCCGCTG**********CCACAAGCTGGGTG
Mut CCCGCCGCCGCTG***Deletion***CCACAAGCTGGGTG
Allele-1: 109bp deletion in exon1

WT CCGCCGCCGCTGC************CACAAGCTGGGTGG
Mut CCGCCGCCCGTGC***Deletion***CACAAGCTGGGTGG
Allele-2: 109bp deletion in exon1

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