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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

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
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.

Contact

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Sequencing data

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WT   CCCGCCGCCCGCTG**********CCACAAGCTGGGTG
Mut  CCCGCCGCCCGCTG***Deletion***CCACAAGCTGGGTG
Allele-1:   109bp deletion in exon1

WT   CCGCCGCCCGCTGC**********CACAAGCTGGGTGG
Mut  CCGCCGCCCGCTGC***Deletion***CACAAGCTGGGTGG
Allele-2:   109bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and GSR knockout (KO) HeLa cells, using sanger sequencing.

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