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PARP1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01786

Basic Information

Catalog No.
RM01786

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Species
Human

Gene ID
142

Swiss Prot
P09874

Synonyms
ADPRT; ADPRT 1; ADPRT1; ARTD1; PARP; PARP-1; PPOL; pADPRT-1

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Background

This gene encodes a chromatin-associated enzyme, poly(ADP-ribosyl)transferase, which modifies various nuclear proteins by poly(ADP-ribosyl)ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes. [provided by RefSeq, Jul 2008]

Product Information

Description
PARP1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:exon2 was deleted
Allele-2:exon2 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℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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    TTCTCTTCCTTCTA**************TACTGGGGCAGCAT
Mut   TTCTCTTCCTTCTA***Deletion***TACTGGGGCAGCAT
Allele-1: exon2 was deleted
WT    TTCTCTTCCTTCTA**************TACTGGGGCAGCAT
Mut   TTCTCTTCCTTCTA***Deletion***TACTGGGGCAGCAT
Allele-2: exon2 was deleted
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Genome sequence analysis of PCR products from parental (WT) and PARP1 knockout (KO) HeLa cells, using sanger sequencing.