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PARP1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01824

Basic Information

Catalog No.
RM01824

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

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.

Gene Information

Gene Symbol
PARP1

Species
Human

Gene ID
142

Swiss Prot
P09874

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

Product Information

Description
PARP1 Knockout 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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial.

Storage
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Contact

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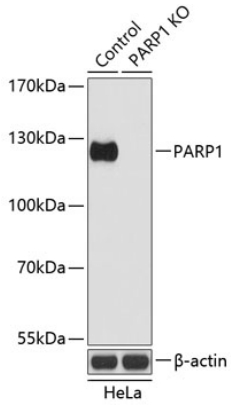
Sequencing data

WT TTCTCTTCCTTCTA**********TACTGGGGCAGCAT
Mut TTCTCTTCCTTCTA***Deletion***TACTGGGGCAGCAT
Allele-1: exon2 was deleted

WT TTCTCTTCCTTCTA**********TACTGGGGCAGCAT
Mut TTCTCTTCCTTCTA***Deletion***TACTGGGGCAGCAT
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and PARP1 knockout (KO) HeLa cells, using sanger sequencing.

WB data



Western blot analysis of extracts from parental (Control) and PARP1 knockout (KO) HeLa cells, using PARP1 antibody at 1:1000 dilution.