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YAP1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01939

Basic Information

Catalog No.
RM01939

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene encodes a downstream nuclear effector of the Hippo signaling pathway which is involved in development, growth, repair, and homeostasis. This gene is known to play a role in the development and progression of multiple cancers as a transcriptional regulator of this signaling pathway and may function as a potential target for cancer treatment. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2013]

Gene Information

Gene Symbol
YAP1

Species
Human

Gene ID
10413

Swiss Prot
P46937

Synonyms
COB1; YAP; YAP2; YAP65; YKI

Product Information

Description
YAP1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:34bp deletion in exon2
Allele-2:34bp deletion in exon2
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
Store at -20℃

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    CAGACAACAACATG**********AACGTCACAGCCCC
Mut   CAGACAACAACATG***Deletion***AACGTCACAGCCCC
AIIele-1:  34bp deletion in exon2

WT    CAGACAACAACATG**********AACGTCACAGCCCC
Mut   CAGACAACAACATG***Deletion***AACGTCACAGCCCC
AIIele-2:  34bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and YAP1 knockout (KO) HeLa cells, using sanger sequencing.

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