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UBE2O Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02688

Basic Information

Catalog No.
RM02688

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

Enables ubiquitin conjugating enzyme activity and ubiquitin protein ligase activity. Involved in positive regulation of BMP signaling pathway; protein ubiquitination; and retrograde transport, endosome to Golgi. Located in cytoplasm and nuclear body.

Gene Information

Gene Symbol
UBE2O

Species
Human

Gene ID
63893

Swiss Prot
Q9C0C9

Synonyms
E2-230K; 2O

Product Information

Description
UBE2O Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:164bp deletion in exon1
Allele-2:163bp 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 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    GGTGTCGGGCCGTT**********CAGTGGTACCCGGA
Mut   GGTGTCGGGCCGTT***Deletion***CAGTGGTACCCGGA
Allele-1:   164bp deletion in exon1

WT    GTGTCGGGCCGTTA**********CAGTGGTACCCGGA
Mut   GTGTCGGGCCGTTA***Deletion***CAGTGGTACCCGGA
Allele-2:   163bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and UBE2O knockout (KO) HeLa cells, using sanger sequencing.

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