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COP1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02748

Basic Information

Catalog No.
RM02748

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

Enables ubiquitin protein ligase activity. Involved in positive regulation of proteasomal ubiquitin-dependent protein catabolic process; proteasome-mediated ubiquitin-dependent protein catabolic process; and response to ionizing radiation. Part of Cul4A-RING E3 ubiquitin ligase complex.

Gene Information

Gene Symbol
COP1

Species
Human

Gene ID
64326

Swiss Prot
Q8NHY2

Synonyms
FAP78; RFWD2; CFAP78; RNF200

Product Information

Description
COP1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:122bp deletion in exon1
Allele-2:122bp 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
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

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Sequencing data

WT CTCTTCCCCGT**********AGCGGCGGCGG
Mut CTCTTCCCCGT***Deletion(122bp)***AGCGGCGGCGG
Allele-1: 122bp deletion in exon1

WT CTCTTCCCCGT**********AGCGGCGGCGG
Mut CTCTTCCCCGT***Deletion(122bp)***AGCGGCGGCGG
Allele-2: 122bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and COP1 knockout (KO) 293T cells, using sanger sequencing.