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VHL Knockout 293T Cell Line, Homozygous

Catalog No.: RM02173 **1 Publications**

Basic Information

Catalog No.
RM02173

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
VHL

Species
Human

Gene ID
7428

Swiss Prot
P40337

Synonyms
HRCA1; RCA1; VHL1; pVHL

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

Von Hippel-Lindau syndrome (VHL) is a dominantly inherited familial cancer syndrome predisposing to a variety of malignant and benign tumors. A germline mutation of this gene is the basis of familial inheritance of VHL syndrome. The protein encoded by this gene is a component of the protein complex that includes elongin B, elongin C, and cullin-2, and possesses ubiquitin ligase E3 activity. This protein is involved in the ubiquitination and degradation of hypoxia-inducible-factor (HIF), which is a transcription factor that plays a central role in the regulation of gene expression by oxygen. RNA polymerase II subunit POLR2G/RPB7 is also reported to be a target of this protein. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

Product Information

Description
VHL Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:149bp deletion in exon1
Allele-2:149bp 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.

Sequencing data

WT AGTCCGGCCCGGAA**********CGACGGCGAGCCGC
Mut AGTCCGGCCCGGAA***Deletion***CGACGGCGAGCCGC
Allele-1: 149bp deletion in exon1

WT AGTCCGGCCCGGAA**********CGACGGCGAGCCGC
Mut AGTCCGGCCCGGAA***Deletion***CGACGGCGAGCCGC
Allele-2: 149bp deletion in exon1

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