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BECN1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01827

Basic Information

Catalog No.
RM01827

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
BECN1

Species
Human

Gene ID
8678

Swiss Prot
Q14457

Synonyms
ATG6; VPS30; beclin1

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Background

This gene encodes a protein that regulates autophagy, a catabolic process of degradation induced by starvation. The encoded protein is a component of the phosphatidylinositol-3-kinase (PI3K) complex which mediates vesicle-trafficking processes. This protein is thought to play a role in multiple cellular processes, including tumorigenesis, neurodegeneration and apoptosis. Alternative splicing results in multiple transcript variants.

Product Information

Description
BECN1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:104bp deletion in exon1
Allele-2:104bp 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

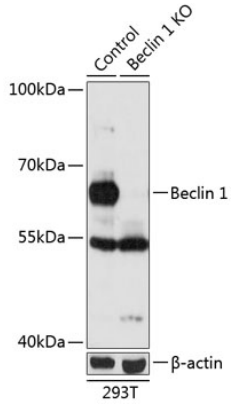
Amount
1~5x10^6 cells/vial.

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.

WB data



Western blot analysis of extracts from parental (Control) and BECN1 knockout (KO) 293T cells, using BECN1 antibody at 1:1000 dilution.

Sequencing data

WT TCTTTTCCACGGCC**********CCGTGTCACCATCC
Mut TCTTTTCCACGGCC***Deletion***CCGTGTCACCATCC
Allele-1: 104bp deletion in exon1

WT TCTTTTCCACGGCC**********CCGTGTCACCATCC
Mut TCTTTTCCACGGCC***Deletion***CCGTGTCACCATCC
Allele-2: 104bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and BECN1 knockout (KO) 293T cells, using sanger sequencing.