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ATG16L1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02597 **1 Publications**

Basic Information

Catalog No.
RM02597

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
ATG16L1

Species
Human

Gene ID
55054

Swiss Prot
Q676U5

Synonyms
APG16L; ATG16A; ATG16L; IBD10; WDR30

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Background

The protein encoded by this gene is part of a large protein complex that is necessary for autophagy, the major process by which intracellular components are targeted to lysosomes for degradation. Defects in this gene are a cause of susceptibility to inflammatory bowel disease type 10 (IBD10). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jun 2010]

Product Information

Description
ATG16L1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:exon1 was deleted;Allele-2:exon1 was deleted
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.

Sequencing data

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WT     CCGTCAGCCCTCGC**********GGTGCGGGCTGGGA
Mut    CCGTCAGCCCTCGC***Deletion***GGTGCGGGCTGGGA
Allele-1:    exon1 was deleted

WT     CCGTCAGCCCTCGC**********GGTGCGGGCTGGGA
Mut    CCGTCAGCCCTCGC***Deletion***GGTGCGGGCTGGGA
Allele-2:    exon1 was deleted
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Genome sequence analysis of PCR products from parental (WT) and ATG16L1 knockout (KO) HeLa cells, using sanger sequencing.