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ABL2 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02694

Basic Information

Catalog No.
RM02694

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the Abelson family of nonreceptor tyrosine protein kinases. The protein is highly similar to the c-abl oncogene 1 protein, including the tyrosine kinase, SH2 and SH3 domains, and it plays a role in cytoskeletal rearrangements through its C-terminal F-actin- and microtubule-binding sequences. This gene is expressed in both normal and tumor cells, and is involved in translocation with the ets variant 6 gene in leukemia. Multiple alternatively spliced transcript variants encoding different protein isoforms have been found for this gene.

Gene Information

Gene Symbol
ABL2

Species
Human

Gene ID
27

Swiss Prot
P42684

Synonyms
ARG; ABLL; ABL2

Product Information

Description
ABL2 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:94bp deletion in exon3
Allele-2:94bp deletion in exon3
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

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WT    ACCATGGACCTGTG**********CGCTCAGGTACGA
Mut   ACCATGGACCTGTG***Deletion***CGCTCAGGTACGA
Allele-1:    94bp deletion in exon3

WT    ACCATGGACCTGTG**********CGCTCAGGTACGA
Mut   ACCATGGACCTGTG***Deletion***CGCTCAGGTACGA
Allele-1:    94bp deletion in exon3
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Genome sequence analysis of PCR products from parental (WT) and ABL2 knockout (KO) 293T cells, using sanger sequencing.