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RARA Knockout 293T Cell Line, Homozygous

Catalog No.: RM50127

Basic Information

Catalog No.
RM50127

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene represents a nuclear retinoic acid receptor. The encoded protein, retinoic acid receptor alpha, regulates transcription in a ligand-dependent manner. This gene has been implicated in regulation of development, differentiation, apoptosis, granulopoeisis, and transcription of clock genes. Translocations between this locus and several other loci have been associated with acute promyelocytic leukemia. Alternatively spliced transcript variants have been found for this locus.

Gene Information

Gene Symbol
RARA

Species
Human

Gene ID
5914

Swiss Prot
P10276

Synonyms
RAR; NR1B1; RARalpha; RAR□

Product Information

Description
RARA Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:70bp deletion in exon1
Allele-2:70bp 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.

Contact

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Sequencing data

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WT    CTACACGCTGACGC**********GGGCAAATACACTA
Mut   CTACACGCTGACGC***Deletion***GGGCAAATACACTA
Allele-1:   70bp deletion in exon1

WT    CTACACGCTGACGC**********GGGCAAATACACTA
Mut   CTACACGCTGACGC***Deletion***GGGCAAATACACTA
Allele-2:   70bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and RARA knockout (KO) 293T cells, using sanger sequencing.

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