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IRF3 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02113

Basic Information

Catalog No.
RM02113

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
IRF3

Species
Human

Gene ID
3661

Swiss Prot
Q14653

Synonyms
IIAE7

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Background

This gene encodes a member of the interferon regulatory transcription factor (IRF) family. The encoded protein is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. This complex translocates to the nucleus and activates the transcription of interferons alpha and beta, as well as other interferon-induced genes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

Product Information

Description
IRF3 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:121bp deletion in exon1
Allele-2:121bp 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

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WT    CCCCACTCCCAGAT**************TGTTGGTGCCGGGG
Mut   CCCCACTCCCAGAT***Deletion***TGTTGGTGCCGGGG
Allele-1: 121bp deletion in exon1

WT    CCCCACTCCCAGAT**************TGTTGGTGCCGGGG
Mut   CCCCACTCCCAGAT***Deletion***TGTTGGTGCCGGGG
Allele-2: 121bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and IRF3 knockout (KO) HeLa cells, using sanger sequencing.