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IL11 Knockout HuH-7 Cell Line, Homozygous

Catalog No.: RM02408

Basic Information

Catalog No.
RM02408

Category
Cell Line

Parental Cell line
HuH-7

Genotype
Knockout

Gene Information

Gene Symbol
IL11

Species
Human

Gene ID
3589

Swiss Prot
P20809

Synonyms
AGIF; IL-11

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Background

The protein encoded by this gene is a member of the gp130 family of cytokines. These cytokines drive the assembly of multisubunit receptor complexes, all of which contain at least one molecule of the transmembrane signaling receptor IL6ST (gp130). This cytokine is shown to stimulate the T-cell-dependent development of immunoglobulin-producing B cells. It is also found to support the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jun 2012]

Product Information

Description
IL11 Knockout HuH-7 Cell Line knockout is engineered from HuH-7 cell line with Gene-Editing Technology.
Allele-1:73bp deletion in exon2
Allele-2:73bp deletion in exon2
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

WT ACCTGCGGCACGTG**********TGGACCGGCTGCTG
Mut ACCTGCGGCACGTG***Deletion***TGGACCGGCTGCTG
Allele-1: 73bp deletion in exon2

WT ACCTGCGGCACGTG**********TGGACCGGCTGCTG
Mut ACCTGCGGCACGTG***Deletion***TGGACCGGCTGCTG
Allele-2: 73bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and IL11 knockout (KO) Huh7 cells, using sanger sequencing.