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AIF1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02230

Basic Information

Catalog No.
RM02230

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
AIF1

Species
Human

Gene ID
199

Swiss Prot
P55008

Synonyms
AIF-1; IBA1; IRT-1; IRT1

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Background

This gene encodes a protein that binds actin and calcium. This gene is induced by cytokines and interferon and may promote macrophage activation and growth of vascular smooth muscle cells and T-lymphocytes. Polymorphisms in this gene may be associated with systemic sclerosis. Alternative splicing results in multiple transcript variants, but the full-length and coding nature of some of these variants is not certain. [provided by RefSeq, Jan 2016]

Product Information

Description
AIF1 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:79bp deletion in exon2
Allele-2:79bp 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
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

```
WT     GTCCCTGAAACGAA**************GACGTTCAGCTACC
Mut    GTCCCTGAAACGAA***Deletion***GACGTTCAGCTACC
Allele-1：79bp deletion in exon2

WT     GTCCCTGAAACGAA**************GACGTTCAGCTACC
Mut    GTCCCTGAAACGAA***Deletion***GACGTTCAGCTACC
Allele-2：79bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and AIF1 knockout (KO) HeLa cells, using sanger sequencing.