Leader in Biomolecular Solutions for Life Science

www.abclonal.com

ARG1 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02193

Basic Information

Catalog No.
RM02193

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

Gene Information

Gene Symbol
ARG1

Species
Human

Gene ID
383

Swiss Prot
P05089

Product Information

Description
ARG1 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:67bp deletion in exon3
Allele-2:88bp 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
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

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Sequencing data

```
WT    TTAT*************CAAA*GAGC*************GCTG
Mut   TTAT***Deletion***CAAA*GAGC***Deletion***GCTG
Allele-1:    67bp deletion in exon3

WT    GTGATGTGAAGGAT*************AGCTGGCTGGCAAG
Mut   GTGATGTGAAGGAT***Deletion***AGCTGGCTGGCAAG
Allele-2:    88bp deletion in exon3
```

Genome sequence analysis of PCR products from parental (WT) and ARG1 knockout (KO) HeLa cells, using sanger sequencing.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.