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NFE2L2 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01812

Basic Information

Catalog No.
RM01812

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
NFE2L2

Species
Human

Gene ID
4780

Swiss Prot
Q16236

Synonyms
HEBP1; NRF2

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Background

This gene encodes a transcription factor which is a member of a small family of basic leucine zipper (bZIP) proteins. The encoded transcription factor regulates genes which contain antioxidant response elements (ARE) in their promoters; many of these genes encode proteins involved in response to injury and inflammation which includes the production of free radicals. Multiple transcript variants encoding different isoforms have been characterized for this gene. [provided by RefSeq, Sep 2015]

Product Information

Description
NFE2L2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:5bp deletion in exon1
Allele-2:2bp 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.

Sequencing data

WT ACGGAAAGAGTATGAGCTGGAAAAACAGAAAAA
Mut ACGGAAAGAGTATG - - - - -GAAAAACAGAAAAA
Allele-1: 5bp deletion in exon1

WT GCGACGGAAAGAGTATGAGCTGGAAAAACAGA
Mut GCGACGGAAAGAGTGT - -GCTGGAAAAACAGA
Allele-2: 2bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and NFE2L2 knockout (KO) HeLa cells, using sanger sequencing.

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