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MDM2 Knockdown HCT116 Cell Line, Heterozygous

Catalog No.: RM01901

Basic Information

Catalog No.
RM01901

Category
Cell Line

Parental Cell line
HCT116

Genotype
Knockdown

Gene Information

Gene Symbol
MDM2

Species
Human

Gene ID
4193

Swiss Prot
Q00987

Synonyms
ACTFS; HDMX; hdm2

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Background

This gene encodes a nuclear-localized E3 ubiquitin ligase. The encoded protein can promote tumor formation by targeting tumor suppressor proteins, such as p53, for proteasomal degradation. This gene is itself transcriptionally-regulated by p53. Overexpression or amplification of this locus is detected in a variety of different cancers. There is a pseudogene for this gene on chromosome 2. Alternative splicing results in a multitude of transcript variants, many of which may be expressed only in tumor cells. [provided by RefSeq, Jun 2013]

Product Information

Description
MDM2 Knockdown HCT116 Cell Line is engineered from HCT116 cell line with Gene-Editing Technology.
Allele-1:24bp deletion in exon1
Allele-2:38bp 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

WT ATGTCTGTACCTAC**********GATTCCAGCTTCGG
Mut ATGTCTGTACCTAC***Deletion***GATTCCAGCTTCGG
Allele-1：24bp deletion in exon1

WT AATACCAACATGTC**********CAGCTTCGGAACAA
Mut AATACCAACATGTC***Deletion***CAGCTTCGGAACAA
Allele-2：38bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and MDM2 Knockdown (KD) HCT116 cells, using sanger sequencing.