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FOXM1 Knockdown HCT116 Cell Line, Heterozygous

Catalog No.: RM01907

Basic Information

Catalog No.
RM01907

Category
Cell Line

Parental Cell line
HCT116

Genotype
Knockdown

Gene Information

Gene Symbol
FOXM1

Species
Human

Gene ID
2305

Swiss Prot
Q08050

Synonyms
FKHL16; FOXM1B; HFH-11; HFH11; HNF-3; INS-1; MPHOSPH2; MPP-2; MPP2; PIG29; TRIDENT

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Background

The protein encoded by this gene is a transcriptional activator involved in cell proliferation. The encoded protein is phosphorylated in M phase and regulates the expression of several cell cycle genes, such as cyclin B1 and cyclin D1. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]

Product Information

Description
FOXM1 Knockdown HCT116 Cell Line is engineered from HCT116 cell line with Gene-Editing Technology.
Allele-1:105bp deletion in exon1
Allele-2:107bp 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 CCCCTGCCCAACAG**********GTAGTGGCCATCCC
Mut CCCCTGCCCAACAG***Deletion***GTAGTGGCCATCCC
Allele-1: 105bp deletion in exon1

WT ATCCCCTGCCCAAC**********GTAGTGGCCATCCC
Mut ATCCCCTGCCCAAC***Deletion***GTAGTGGCCATCCC
Allele-2: 107bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and FOXM1 Knockdown (KD) HCT116 cells, using sanger sequencing.