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PIWIL4 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM02118

Basic Information

Catalog No.
RM02118

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
PIWIL4

Species
Human

Gene ID
143689

Swiss Prot
Q7Z3Z4

Synonyms
HIWI2; MIWI2

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Background

PIWIL4 belongs to the Argonaute family of proteins, which function in development and maintenance of germline stem cells (Sasaki et al., 2003 [PubMed 12906857]).[supplied by OMIM, Mar 2008]

Product Information

Description
PIWIL4 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:WT
Allele-2:exon2 was deleted
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 GATCTCAACCAACG**********TAAGTGCAGCTCAG
Mut GATCTCAACCAACG***Deletion***TAAGTGCAGCTCAG
Allele-1: WT

WT TTTTTTGCCATTTT**********GTAAGTGCAGCTCA
Mut TTTTTTGCCATTTT***Deletion***GTAAGTGCAGCTCA
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and PIWIL4 Knockdown (KD) HeLa cells, using sanger sequencing.

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